

Educational Bridges Built Between Sandia, UNM

Perhaps New Mexico's best kept secret in education is the extent of interchanges between Sandia Albuquerque and the University of New Mexico (UNM).

Oh, everyone knows of a Sandian who takes technical courses at UNM — and of the occasional professor who comes here for research or who provides TV instruction. But the mutual support between the Labs and the University is more than a two-way street. It's more like a six-lane boulevard: in doing research, teaching, taking courses, giving colloquia, lending equipment, and doing advisory work.

Sandia funds for research at UNM are a substantial part of the story. But the roadway that's been laid down is much wider than that. Several hundred Sandians are taking courses at UNM every year, some Sandians are teaching there, and others act as advisors. In turn, many UNM professors do research here or teach courses, and a few UNM students work here. And equipment is jointly used by the two institutions.

Sum Also Rises

This educational exchange has been picking up momentum over the past few years. A quick scan of Sandia expenditures shows, for example, that the Labs placed R&D contracts with UNM to the tune of \$870,000 in FY82, but by FY86 that sum had risen to almost \$2.5 million. In FY87 it will be at least that much.

The body that oversees, monitors, and promotes these interchanges is the JWG, or Joint Working Group (see LAB NEWS, special issue on education, July 19, 1985). Dick Schwoebel (1800), JWG chairman, recently called a meeting of the group in the Tech Transfer Center (TTC) to address four major programs: Joint Faculty Appointments, Sandia/UNM Research, Distinguished Professor, and statewide Instructional Television (ITV).

President Welber set the tone for the meeting,

At Random Times, Gates

Package Inspection Program Coming

As a glance at the sign at each Sandia gate indicates, any container carried through the gates is subject to inspection to ensure that no prohibited items enter — and only government-owned property authorized to leave leaves — the Labs' security areas.

Beginning this month, Security will, on a random basis, exercise its right to inspect all hand-carried packages (including briefcases, purses, and lunch pails) as they are carried through the gates.

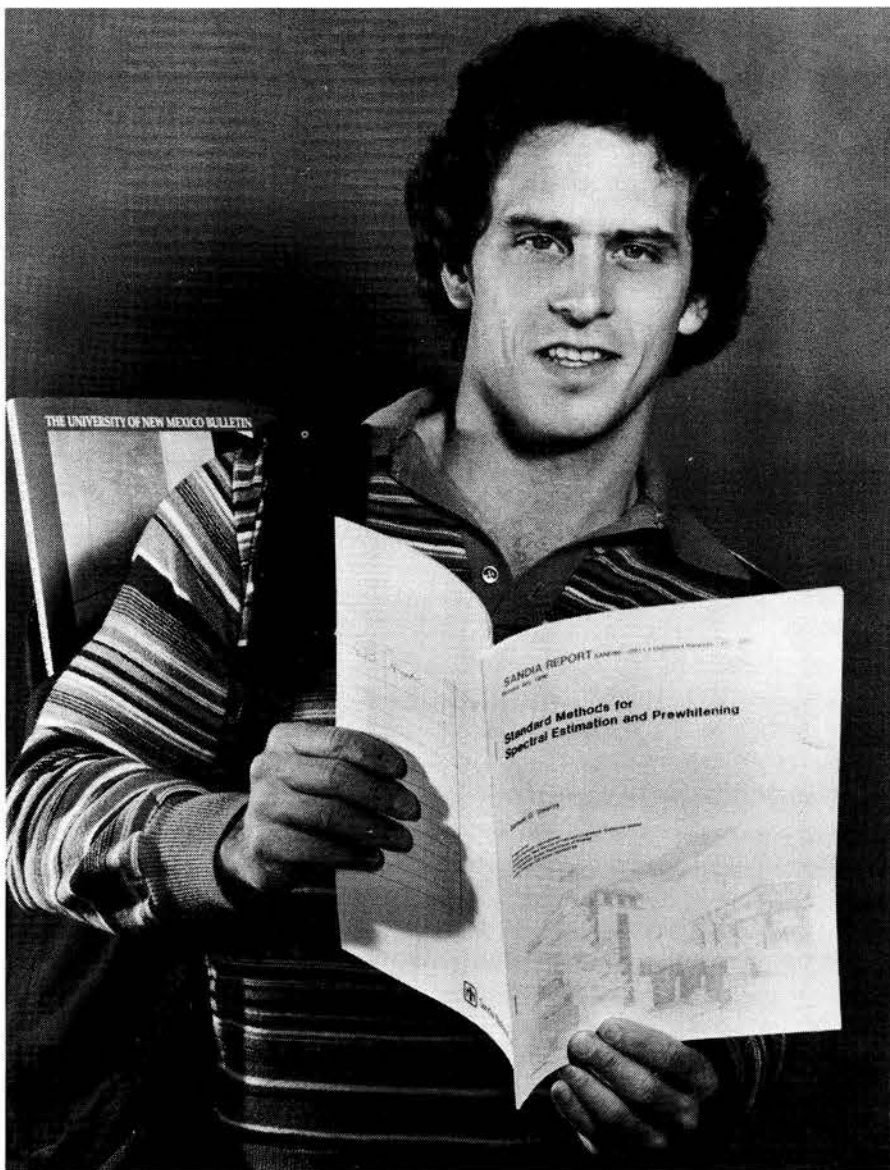
"Random," in this case, means that there will be no arbitrary or discriminatory pattern in specifying the gates, times, and durations for inspections. "It could be Gate 1 at 7 a.m. for five minutes," says Bob Wilde, manager of Safeguards and Security Services Department 3430. "Or it could be Gate 2 at 4:20 p.m. for 20 minutes."

"And, yes, inspections will cause some delays for those people carrying packages," Bob continues. "The inspections themselves will be brief, but if we happen to hit a major gate at a prime arrival or departure time, the people carrying packages will have to stand in line for a few minutes."

That's the downside of the policy change. The upside will, Sandia management believes, provide benefits that overshadow the inconvenience.

One of those benefits is increased personal security for all employees while they're inside the fences. "All of us are aware that an 'incident' could take place here," says Jim Martin, Director of Security and Facility Support Services 3400. "It's our job to minimize the danger to Sandia employees that could be caused by anyone, employee or non-employee. Making it more difficult to bring explosives, fire-

(Continued on Page Two)



SANDWICHED BETWEEN A SAND Report and a UNM Bulletin, Don Hush (9133) heads for the UNM class he teaches in digital signal processing. The SAND Report is by Sam Stearns (DMTS, 7111); Don and Sam and 23 other Sandians serve as adjunct professors at UNM.

noting that New Mexico needs a strong university system. "A strong UNM's particularly important to operations such as Sandia and Los Alamos [national laboratories]," he said. And UNM President Gerald May cited once again the JWG's broad charter:

"To identify and promote useful interactions between UNM and Sandia."

Danny Brown, manager of Education and Training Department 3520 and member of the JWG, out-

(Continued on Page Four)



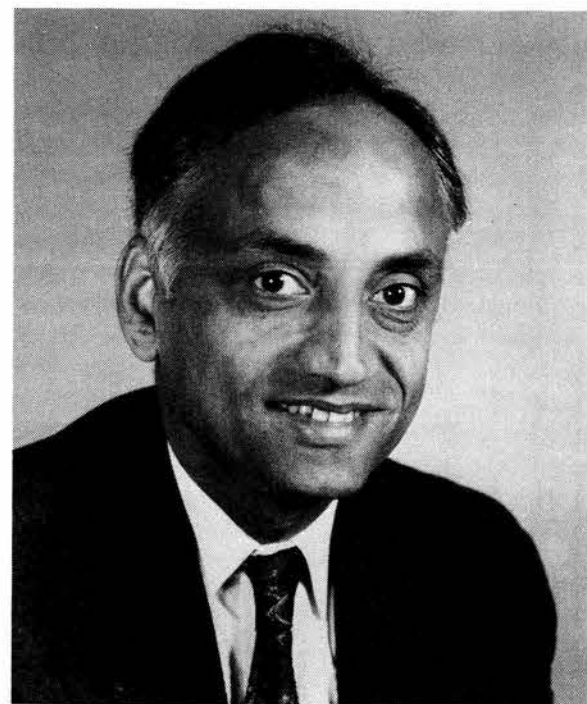
Narayanamurti Named VP 1000

Venkatesh Narayanamurti, currently Director of the Solid-State Electronics Research Laboratory, AT&T Bell Laboratories, at Murray Hill, N.J., has been named Vice-President of Research 1000, effective May 1. He succeeds Bill Brinkman, who is returning to Bell Laboratories as Executive Director of Research, Physics, and Academic Affairs.

Venkatesh joined Bell Laboratories in 1968 as a Member of Technical Staff in the Physics Research Laboratory. He was promoted to head of the Semiconductor Electronics Research Department in 1976. He became Director of the Solid-State Electronics Research Laboratory in 1981. He has had primary responsibility for research in solid-state physics to meet long-term AT&T needs in photonics and microelectronics.

He has published articles in the area of low-temperature physics (including superconductivity), high-frequency acoustics, phonon optics at terahertz frequencies, and transport in semiconductors.

He received his BS (with honors) and his MS in physics from the University of Delhi, and his PhD in physics from Cornell. He is a Fellow of the American Physical Society, Fellow of the Indian Academy of Sciences, Fellow of the American Association for the Advancement of Science, and a Senior Member of IEEE.



VENKATESH NARAYANAMURTI

Venkatesh and his wife Jayalakshmi have three children. He is an avid squash player and a long-distance runner.

Antojitos

Twitting the Terminology Torturers Why don't we list all the "agents" that could threaten Sandia's computer security? "It is not feasible [says a SAND report] to effect a complete listing of all possible threat agents since, while not infinite, such a listing would be sufficiently large as to preclude manual generation and/or certainty of completeness." In other words, just too many threat agents.

Then there's the letter accompanying a "Technical Order System Publication Improvement Report and Reply" form. The letter agrees that "some confusion may result in the positioning of the tools between the paragraphs cited" in the manual. Moral: Don't put your tools down between paragraphs.

* * *

The Twitter Twitted Fair is fair. Retiree Don Hosterman, now with the IAEA in Vienna, writes as follows: "In the 3-1/2 years I've been in Austria, I've seen many strange recipes. But the one you described in 'Antojitos' last Dec. 19 takes the Sacher torte. I'm not referring to the pumpkin pie made from 'grounded cinnamon,' but rather to the one you suggested, and I quote verbatim, 'fabricated from the label of Libby's canned pumpkin.' A clear case of Libby label libel.

"When I tried your recipe I had two problems: First, you failed to suggest any spices for the label mix, so my label pie was lacking in zest. Secondly, I now have on my shelf a bright silver can of unidentified contents which a year from now I will probably mistake for dog food."

You're right, Don, dammit. I should have said, "fabricated from a recipe on the label." (Anyone have a tasty recipe for humble pie?)

Then there's the limerick apparently inspired by my spelling of the book you use to look up Sandians' phone numbers:

A Sandian, Hawkinson, Broose
Would-be editor at the Lab Noose
Wants to edit the phonebook
Oops---it's really the phone book
Come on Broose, you're loose as a goose.

Sorry, can't publish this; punctuation is lousy, the second line doesn't scan, and I think one word is misspelled. (And I still don't know whether it's phone book or phonebook.)

Lab Noose? I've heard worse. For example, a recent letter from an "account executive" at Dean Witter Reynolds Inc. asked us to run an announcement "in the next issue of the SNL Lab Moves." ●BH

* * *

If an editor can only make people angry enough, they will write half his newspaper for him for nothing. G. K. Chesterton (*Heretics*)

feed libback

Q. Vehicular traffic in Tech Area I sometimes gets to be rather hazardous. The speed limit is 15 mph, but just before break times, lunch time, and quitting time that speed limit may be somewhat compromised. For my own safety, I try to be especially alert during those times, but I do wish that drivers would do the same.

Also, it seems unfair and unsafe that bicyclists are exempt from obeying safety rules and traffic regulations.

A. The speed limit in Tech Area I is 15 mph, and vehicles are required to give pedestrians the right-of-way. SNLA Security is now using a radar gun to monitor vehicle speed in Area I on a random basis and will issue citations as appropriate.

Bicyclists are not exempt from traffic regulations at SNLA. Bicyclists riding on Sandia property are also required to observe the right-of-way rules that apply to motor vehicles, and to comply with all traffic signs. They are subject to traffic citations as well.

Jim Martin - 3400

Q. The sirens for hours before a PBFA II shot in Area IV become very annoying, and the area-wide announcements for several hours before a shot are distracting and seemingly unnecessary for those of us not working directly with PBFA II.

A. Cutting down on noise pollution is always a good idea. Thanks to your suggestion, we no longer announce PBFA II shots on the area-wide PA system.

The sirens are part of Safety's Standard Operating Procedure. The Safety organization measured the sound levels at the Area IV perimeter and the building perimeter, and the volume has been reduced to the minimum consistent with good safety practices. The duration of the sirens is determined by the time it takes to clear personnel from the hi-bay and complete the accelerator experiment. Because PBFA II is a relatively new accelerator and we are still learning the optimum procedures, the duration has been longer than we had planned. It should be reduced as we become more adept at operating this system.

Pace VanDevender - 1200

(Continued from Page One)

Package Inspections Coming

Sympathy

To Reuben Weinmaster (2512) on the death of his mother in Scottsbluff, Nebr., March 29.

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SANDIA NATIONAL LABORATORIES

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arms, or drugs inside the gates is a step in that direction.

"It's also our job to keep government property from being stolen or otherwise misused," Jim continues. "How is preventing theft a benefit to employees? Stop and consider: Every piece of equipment that gets stolen from Sandia has to get replaced. And where does the government get the money to replace stolen items? From the pocket of the taxpayer — in other words, from all of us." Last year some \$44,000 worth of items were missing and believed stolen from Sandia Albuquerque, that is, from the U.S. government.

"We know the random inspections are not the magic answer to either the personal security or the theft problem," Jim concludes, "but we believe inspecting packages will raise the security awareness of employees and others who enter our secured areas — the inspections will have a waves-in-the-pond effect. We believe we'll be safer and that we're all going to save some money in the long run. The benefits outweigh the inconvenience."

"Small Staff has discussed the issue over the last year or so," notes Lee Bray, EVP 30. "We're aware that some employees may regard any inspection program as invasion of privacy. But we're also aware that Sandia has an overriding obligation to take reasonable, court-tested means to ensure the safety of its employees and the protection of the property entrusted to it."

How Inspections Work

As noted in the April 2 Security Brief, other weapon labs and the DOE production facilities have

inspection programs that are either similar to or more inclusive — all employees' packages, every arrival and departure — than Sandia's.

Essentially, if you're at or heading into a gate at a time when an inspection is called, you'll be asked to open any containers — such as (but not limited to) boxes, sacks, cartons, handbags, purses, backpacks, briefcases, lunch pails — so the Security person conducting the inspection can ascertain that nothing is going in or out that shouldn't be. Normally, the contents won't be disrupted. And inspections are limited to handcarried items — there will be no "frisking." All vehicles (not just contractor-owned ones) will be inspected.

"Our security people will make every effort to avoid embarrassing anyone," says Bob. "But if you normally carry any personal effects that you'd really not like to show anyone, consider the possibility of a briefcase or handbag inspection — leave them at home."

Generally, if the inspection discloses Sandia property in your package or purse, you will have to satisfactorily resolve the issue with Security. And, naturally, if the inspection discloses classified information or material or prohibited items (such as firearms or alcohol), they will be confiscated. An investigation will follow.

More background information — neither the gate, the time, nor the duration of an inspection will be announced. All packages of all cleared Sandians and visitors are subject to inspection each time they come through any gate. And Security will inspect all packages carried by uncleared Sandians and visitors entering and, depending on site, exiting a gate. ●BH

Science Advisory Council Aids Local Schools, Students

Nearly two years ago Dick Claassen (8000) asked Jim Smith of Education Division 8024 to forge a closer association between Sandia and the Livermore school district. "Find ways that Sandia can help with science and math programs in the local schools," said Dick.

Since then, an active program has blossomed under the auspices of the Science Advisory Council, conceived with Jim's help by Eva Long, assistant superintendent of educational services for the Livermore school district. The advisory group began with Jim, Peter Mattern (then 8350, now 8300), Mike Gusinow (8463), LLNL representatives, school district representatives, a public member, and school board member Joyce Brown.

"The results have been very encouraging," says Jim. "First of all, with the strong support of the council, the school district was able to hire nine science resource specialists for the elementary schools. These teachers bring needed expertise to the students. They also train the classroom teachers to take an increasing role in science education. This training has meant that the number of classroom hours devoted to science has been increased significantly at the kindergarten through fifth grade levels."

Jim adds that the council, working with the principals and faculty at the middle and high schools, is now forming a kind of math/science continuum to help students progress smoothly from level to level through the system. To enhance that continuum concept even further, representatives of the faculty at Chabot College Valley Campus and, more recently, Cal State Hayward are now working with the council to bring the local two- and four-year colleges into the system.

Under the auspices of the council, LLNL has



AT A SCIENCE ADVISORY COUNCIL meeting, Eva Long (right), assistant superintendent of the Livermore school district, talks with Sandia council members Karen Scott and Jim Smith (both 8024).

obtained a National Science Foundation grant for a Summer Science Institute at that lab. The Institute will include about 25 local science teachers among others from all over the Bay Area. Sandia's Peter Mattern, Portola principal Linda Heiner, and Jackson Avenue science teacher Donald Iman have proposed that NSF support funding for the science resource program in the schools; that request is pending.

In addition to its effect on the students themselves, Peter believes the council has had a positive influence on the school board, raising its level of science-education consciousness and helping to get the science operating budget increased significantly. "According to all the feedback I've received, the science program is a wild success," Peter said. "Elementary grade kids are more enthusiastic about science than ever before."

A \$100,000 textbook upgrading is now under way, Peter notes, and construction has been approved for new science labs in the middle schools. Another benefit he sees is that interaction between labs and school people has increased. "I see that improvement both on the formal level — during council meetings, for example — and the informal — activities jointly undertaken by individual members of the labs and the schools," he says.

Assistant Superintendent Eva Long is also pleased with the results. "I think it has been a breath of sunshine for the district," she notes. "For the first time in our history, we in the school system have been able to build a linkage, a liaison with the two labs and the area colleges. It's exciting to work with a

group that's coordinating the many scientific resources available in this Valley.

"There is such a wealth of expertise in our community — and we have just begun to tap the surface," she adds. "I'm looking forward to a lot more thinking, creating, and pulling together the kinds of things that are possible for our schools, utilizing the resources around us."

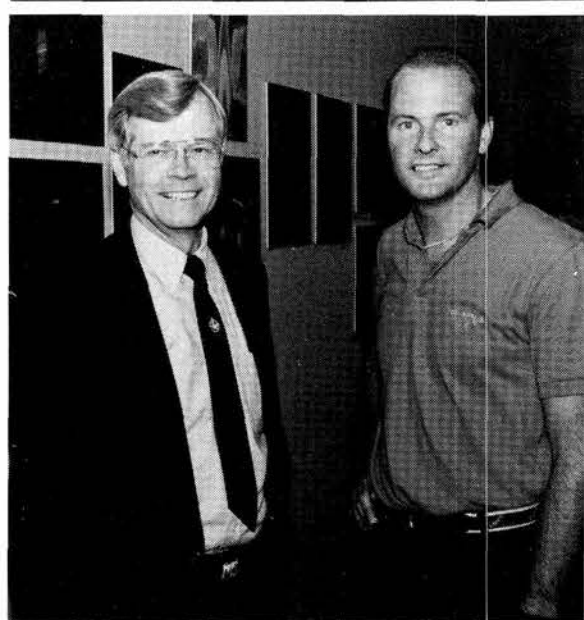
Council Changes Too

Some changes are occurring within the council too. Peter was promoted to 8300 director, and now John Vitko (8430) has replaced him in the group; Mike Gusinow has spun off into a San Ramon "Adopt-A-School" project where he is volunteering his time, and Jim will be succeeded on the council by Sandia newcomer Karen Scott (also 8024).

Jim, who will retire soon, was recently honored by the council and by the school district for his many contributions, and Livermore Schools Superintendent Leo Croce has asked Jim to consider staying on as a private sector representative because of his background and his interest in the program.

Jim lists several projects ahead to keep the council involved with the school district. One is a survey of students and parents to assess the results of the increased science emphasis. Another is a district-wide science fair. In addition, more collaboration among teachers and labs representatives is anticipated.

"I think in the long term we will see greater and greater payoffs for the students as a result of these joint efforts," Jim concludes.



AMERICA'S CUP COMPETITOR Howie Marion (right), shown with his father, John Marion (8274), recently spoke at Sandia on his view of the America's Cup as a member (sail coordinator) of the Australian Kookaburra Syndicate. His talk and slide presentation covered sail design, the use of computers in sail acquisition systems, preparations for the race, and what can be expected in the 1990 America's Cup Race. Howie, a Granada High School graduate, got his start in competitive sailing with the Sandia Sailing Bunch in the early 70s.

Congratulations

To Denise (8023) and Mark Koker, a boy, Matthew Hampton, March 25.

Sympathy

To Sandra Lormand (8024) on the death of her father in Wahiawa, Hawaii, March 13.

To John Freie (8461) on the death of his father in Waterloo, Iowa, March 17.

To Tim Eklund (8462) on the death of his sister in Pittsburg, Calif., March 20.



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EIGHT SANDIA WOMEN took part in the eighth annual Expanding Your Horizons in Math and Science career conference at Chabot College Valley Campus on March 14. Girls in the 6th through 12th grades from the Tri-Valley listened to successful women in math and science tell about their careers. Lynda Hadley (8186) is shown describing her work as a professional photographer. Other participants from Sandia were Susan Gancas, Glenda Mohrman (both 8464), Terry Porter (8235), Carolyn Pura (8434), Celeste Rohlfing (8341), Karen Sheaffer (8235), and Judy Tejada (8184).

(Continued from Page One)

Educational Bridges

lined the already extensive interactions (for the 85-86 academic year):

- **Teaching.** Twenty-five Sandia staff members are teaching at UNM each semester as adjunct professors. And 25 UNM faculty members are teaching in Sandia's INTEC (IN-hours Technical Education Courses) program — eight at the Labs and 17 via ITV.

Then there's the Joint Faculty Appointments Program, part of a plan to build centers of excellence in a few specialties — such as microelectronics, optoelectronics, and computer science — at UNM's College of Engineering. The idea is to get high-level PhDs to come in at assistant-professor level; the incentives are a tenure track at UNM and research opportunities at Sandia. The first two people appointed, Neeraj Magotra (2345) and Charles Fleddermann (1126), have been spending half-time on teaching, half-time on research.

- **Taking Courses.** Sandians are enrolling in UNM classes at the rate of approximately 350 per semester, with most seeking technical degrees and a

tion detector (see LAB NEWS, June 20, 1986).

- **Equipment.** Equipment is jointly used to some degree as well. In the past year alone, Sandia has provided \$800,000 worth of equipment to UNM for work on Sandia projects. Sandia has used some UNM-provided equipment and people: a portable satellite receiver — and a technician.

- **Advisory Work.** Sandians serve on advisory committees at UNM. The three major contributions are in Nuclear Research and Education (work on design of courses and also career advisement), Industrial Advisory Committee (to the Electrical Engineering Dept.), and the Institute of Microelectronics and Thinfilms.

- **New Programs.** A recent New Initiative is the Specialized Engineering Development Program in new technical fields. The 12 current participants from Sandia are splitting their time between research work in weapons-related organizations at Sandia and graduate study in computer science and electrical, computer, and mechanical engineering. (Several major universities have also been sending top people to UNM to complete their specialized master's degrees.)

An earlier-conceived New Initiative is ITV, a program started two years ago with UNM broadcasts of engineering courses to Sandia. ITV is envisioned as expanding into a statewide network — and having an economic impact on the 300-mile Rio Grande Corridor.

Another New Initiative concept is still in the planning stages. The Distinguished Professor program is being designed to attract a world-class researcher to Albuquerque (see "Paying for a Star or Two" story).

Not For Members Only

Five Sandians have official roles in today's JWG: Dick Schwoebel (1800), who is also chairman of Sandia's University Programs Education Committee (UPEC); George Samara (1130); Jim Schirber (1150); Danny Brown (3520); and Dick Fairbanks (3521).

1001 Alumni

Out of roughly 7200 employees at SNLA, more than 1000 hold at least one degree from UNM, according to Dick Schwoebel (1800), chairman of both JWG and UPEC.

At the end of January, almost 17 percent of Sandian MTSs' highest degrees were from UNM, more than from any other university and three times the runner-up (Stanford). Many job classifications show even higher numbers: MLSs, about 30 percent (with NMSU in second place); division supervisors, about 27 percent; and department managers, about 30 percent (both with U. of Illinois second). About 10 percent of directors have degrees from UNM (in a tie for first place with Cornell University).

UNM's delegation consists of four members: VP for Research Paul Risser; Marc Price, graduate dean; Richard Williams, engineering dean; and Russell Seacat, chairman of electrical engineering and computer science.

Others attending JWG's recent meeting at the TTC included Sandia EVP Lee Bray (30), UNM VP Alex Sanchez, Bob Gregory (2100), Harry Saxton (2500), Glenn Kuswa (4030), Dick Traeger (6240), Herm Mauney (7260), and several UNM deans and department chairmen.

The meeting also provided an opportunity to inform local government organizations of the growing relationship between the big employer in Albuquerque and the large university a few miles away. The guests included DeWayne Matthews, executive director of the state's Commission on Higher Education; four members of the CHE, including Sandians Frank Gallegos (3428) and John Finger (6241); Martha Buddecke, representing Senator Pete Domenici's office; and Marty Morgan of Representative Manuel Lujan's office.

Tommy Thompson, former AT&T VP and now president of Riotech, a private technological foundation based in the Rio Grande Valley, sat in on the discussions. ●ID

Paying For a Star or Two

One goal of the JWG is to attract at least one world-class professor to Albuquerque. "We want someone who'll bring his or her research program here and interact with the Rio Grande Corridor, industry, the state, and Sandia," said Marc Price, Dean of UNM's Graduate School, at a recent JWG meeting.

The bait? "Full-professor status at UNM and significant research moneys from Sandia," he said.

Admittedly, there's some hard work ahead — for one, fund-raising. The concept of 'importing' a Distinguished Professor has been tried only in a few places before UNM. "The idea has been conceived," said Marc, "but we haven't yet geared up the machinery to match. We're going to have to work hard because we're not the only state that's discovered high tech.

"In fact, we're a minor player," he added. "Probably about 47 states are trying to create a high-tech center. And 29 are doing it in a serious way — with half of those putting in real bucks, a lot of bucks."

smaller number taking business courses. Twenty-eight UNM students, in turn, work at Sandia — including 12 who are using Sandia's reactor facility and 10 who are fellows, interns, or summer employees at the Labs.

- **Research.** Sandia's \$2.5 million commitment to research at UNM goes to contract work in engineering, arts and sciences, the NM Research Institute, and the Center for High-Technology Materials.

Then, 15 UNM faculty members are consultants at Sandia.

Also, nine contracts are awarded yearly in the \$500,000 Sandia/University Research Program (SURP). Sandia funds grants through SURP to allow new faculty members at UNM to do some research at the Labs. The proposal-based grants help reduce teaching load by providing a summer salary and a graduate student. (Areas of common interest funded thus far range from microbes in the chemistry of geothermal fluids to three-dimensional computer vision. SURP also gives grants to New Mexico State University and the New Mexico Institute of Mining and Technology.)

Finally, two UNM professors teach at Sandia during the summer.

- **Colloquia.** Sandia funds 10 colloquia a year, and UNM administers them. The speakers are Nobel laureates or members of the National Academy of Sciences.

And Biologues (biology dialogues), a formalized information exchange between UNM's Medical School and various Sandia departments, has already resulted in two major developments: biological and physical sensors and an implantable radia-

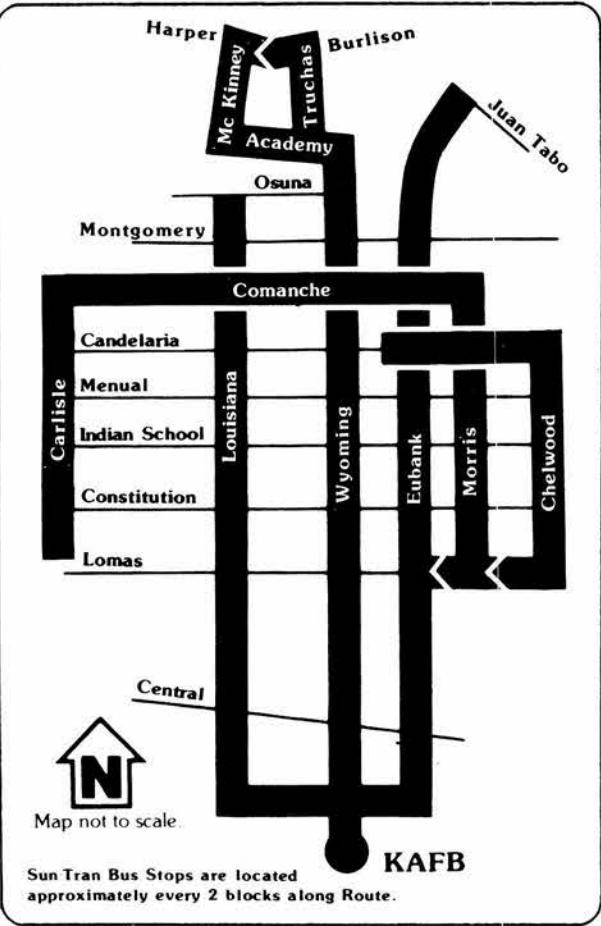


THAT'S NO MERRY-GO-ROUND, BUT A PIECE OF PBFA-I in Area IV, the afternoon workplace at Sandia for four gifted engineering students: Francisco Doñez (1251; on left), Gene Olona (1244), and Tim Luna (1245). Dave Pruitt (7535) didn't show up for his souvenir photo. All are high school seniors selected by Albuquerque Public Schools staff and faculty for this year's Career Exploration Program, according to program coordinator Soila Brewer (3533).



SCOOP AGAINST THE SKY — Some 500,000 cu. ft. of dirt were removed from the site of the Instrumentation Systems Lab, and about half of it was piled here, north of Bldg. 880. Most of it will eventually be used as backfill for the Process Development Lab.

Check the Schedule First



Effective Monday, the five SunTran Sandia trippers have some changes — no new routes but some new times that are designed to improve on-time performance; see the schedules.

In addition, the morning 15-minute service on two regular SunTran routes, Juan Tabo and Eubank, has been replaced by 30-minute service. But the service on the Juan Tabo route has been extended to Eubank, and both buses will pick up passengers on Spain between Juan Tabo and Eubank.

Louisiana-Sandia														
A.M.							P.M.							
Osuna & Louisiana	Candelaria & Louisiana	Winrock Center	Central & Louisiana	Gibson & Louisiana	D.O.E. H Street	Gate 1	Gate 10	Gate 10	Gate 1	D.O.E. H Street	Gibson & Louisiana	Central & Louisiana	Winrock Center	Candelaria & Louisiana
7:06	7:12	7:18	7:25	7:30	7:35	7:40	7:45	4:35	4:40	4:45	4:50	4:55	5:02	5:18

Wyoming-Sandia														
A.M.							P.M.							
Academy & Truchas	Academy & McKinney	Wyoming & Montgomery	Wyoming & Candelaria	Wyoming & Manual	Wyoming & Constitution	Wyoming & Lomas	Wyoming & Central	Gate 1	Gate 10	Gate 10	Gate 1	Wyoming & Central	Wyoming & Lomas	Wyoming & Constitution
7:05	7:10	7:17	7:22	7:25	7:29	7:33	7:38	7:45	7:50	4:35	4:40	4:47	4:51	4:53

Eubank-Sandia														
A.M.							P.M.							
Juan Tabo & Montgomery	Juan Tabo & Spain	Eubank & Juan Tabo	Eubank & Montgomery	Eubank & Indian School	Eubank & Lomas	Eubank & Central	Gate 6	Gate 1	Gate 1	Gate 6	Eubank & Central	Eubank & Lomas	Eubank & Indian School	Eubank & Montgomery
7:11	7:13	7:15	7:19	7:26	7:31	7:36	7:41	7:50	4:35	4:40	4:45	4:49	4:54	5:02

Chelwood-Sandia														
A.M.							P.M.							
Eubank & Candelaria	Chelwood & Candelaria	Chelwood & Lomas	Eubank & Lomas	Eubank & Central	Gate 6	Gate 1	Gate 1	Gate 6	Eubank & Central	Eubank & Lomas	Chelwood & Lomas	Chelwood & Candelaria	Eubank & Candelaria	
7:16	7:20	7:25	7:33	7:39	7:45	7:50	4:35	4:40	4:46	4:49	4:55	5:04	5:10	

Comanche-Sandia														
A.M.							P.M.							
Carlisle & Lomas	Comanche & San Mateo	Comanche & Wyoming	Comanche & Eubank	Comanche & Morris	Lomas & Morris	Eubank & Central	Gate 6	Gate 1	D.O.E. H Street	D.O.E. H Street	Gate 1	Gate 6	Eubank & Central	Lomas & Morris
7:05	7:12	7:16	7:19	7:22	7:25	7:32	7:35	7:40	7:45	4:32	4:37	4:42	4:50	4:57

Retiree Deaths

Edward Newfield (76)	Oct. 3
Glen Casey (70)	Oct. 14
Lee Hancock (72)	Oct. 23
Truett Blackmon (75)	Oct. 26
Robert Tarbell (71)	Oct. 26
Cosme Lovato (75)	Oct. 28
David Hake (78)	Nov. 14
Paul Langdon (60)	Nov. 30
Sheldon Bliss (73)	Dec. 3
James Rabold (69)	Dec. 15
Richard Browne (79)	Dec. 16
Florence Gossin (77)	Dec. 22
Harriet Evans (84)	Dec. 22
John Miller (63)	Dec. 23
William Brady (63)	Dec. 26



JUMP MASTER JOSEPH SANDOVAL (3455), received the award of Distinguished Honor Graduate at the Ft. Benning Jump Master School during training Jan. 20-Feb. 7. Joseph is a Marine Reserve SSgt. and an inspector in Sandia's Special Tactical Operations Personnel (STOP).

Supervisory Appointments

RON HILL to supervisor of Photometrics and Optical Development Division 7556, effective March 16.

Ron joined Sandia in June 1963 as a member of the Plasma Physics Division. In 1969 he was appointed supervisor of the Aerophysics Division. After that division was dissolved, he became a member of the Laser and Atomic Physics Division in 1977. In 1980, Ron joined the Neutron Tube Development Division.

He has a PhD in physics from Michigan State University, and is a member of the American Physical Society.

Ron's spare time activities include genealogy and collecting and restoring classic automobiles.

DENISE ARCHULETA to supervisor of Computer Art Section 3155-3, effective March 1.

Denise joined Sandia in June 1979 as a member of the Project Design Definition Division. In 1980 she went to the Tech Art Division as an artist. Denise began work with the computer graphics system in 1982.

She has an AS in mechanical drafting and design engineering from Forsythe Technical Institute in Winston-Salem, N.C., and is currently working on a computer science degree from UNM.

Denise enjoys needlework and outdoor activities in her spare time. She and her husband Manuel (2852) live in the NE Heights.

JIM BRYSON to supervisor of Experimental Systems Design Division 6452, effective Feb. 16.

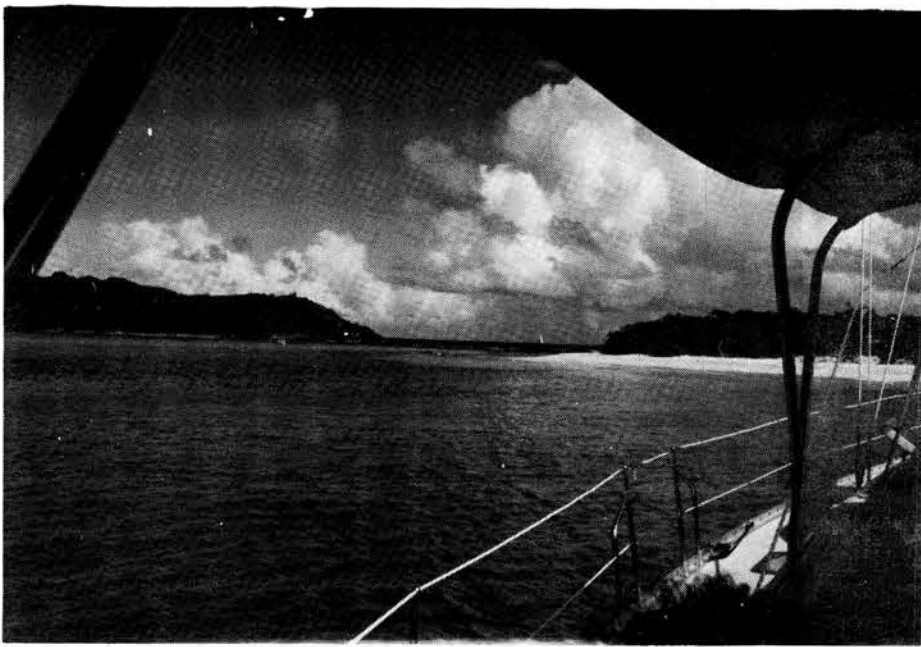
Jim joined the Labs in January 1981 as a member of the Experimental Systems Design Division. In 1982 he joined the Neutron Effects Simulation Staff where he acted as liaison between Sandia and Lawrence Livermore and Los Alamos national laboratories.

He has a BS, an MS, and a PhD in nuclear engineering, all from the University of Michigan. He is a member of the American Nuclear Society. He's also a member of Sandia's PhD recruiting team at the University of Michigan.

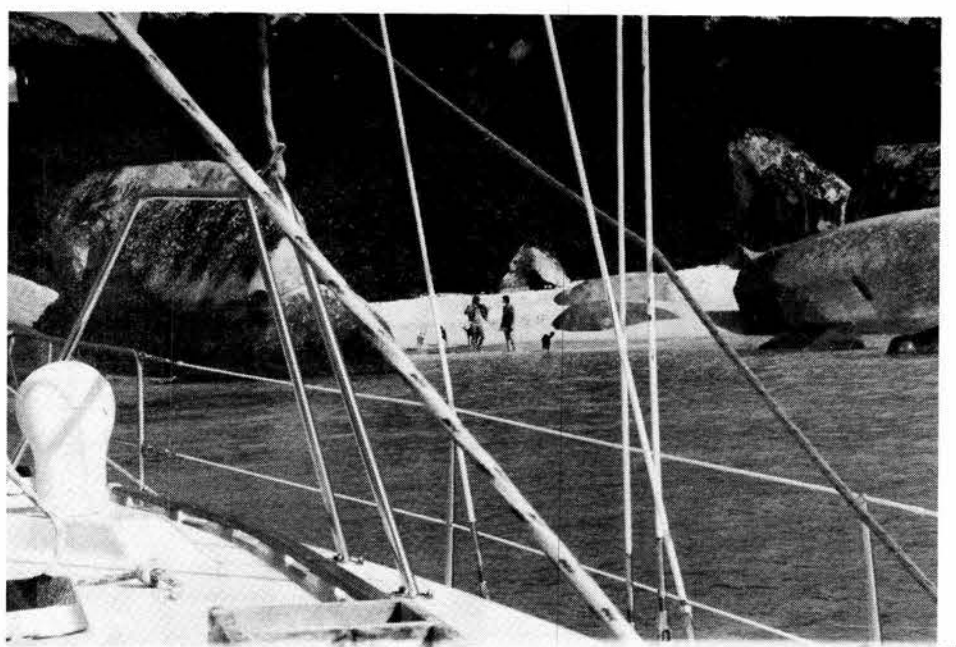
In his spare time, Jim enjoys outdoor activities and plays on SERP's basketball, volleyball, and softball teams. Jim and his wife Chris live in the NE Heights.



RON HILL (7556), DENISE ARCHULETA (3155-3), and JIM BRYSON (6452)



CALM LAGOONS, dramatic skies, warm temperatures — they're all part of a Caribbean sailing cruise.



UNSPOILED BEACHES, magnificent scenery characterize the islands around Tortola where the Windrider sailors roamed. This area, for no identifiable reason, is called The Baths.

Retiree Roundup

A-Sail in the Antilles

By Phil Mead (ret.)

It was a want ad in the LAB NEWS that prompted my wife and me to sign up for a week's cruise on a 43-foot sailboat in the Caribbean. We flew to Miami and thence to San Juan, Puerto Rico, where we stayed overnight, arriving next morning at our destination: Tortola, a British Virgin (yes, Virginia, there . . .) Island that I had never heard of. It's in the elbow where the Greater Antilles become lesser as they trail off toward South America.

The sky was as blue, the clouds as fleecy, and the waters as cobalt and clear as we all know from calendars and TV. The travel brochures are quite right about the incredibly colored fish and the variety of life on the reefs.

Snorkeling, however, revealed other dimensions. A four-foot barracuda, riding herd on his food supply of smaller fish, disdained to move as we swam quietly over it. A large skate — about three feet across and seven feet long, including the dangerous tail — had incompletely undulated its way under sand between rocks, and lay surveying the world above with teacup-sized eyes that rolled backward and forward at precise intervals.

Groups of two or three squid, oddly bent in the middle, with violet fringes fluttering down their sides, hung in mid-water. At any sudden motion, they vanished faster than the eye could follow, leaving clouds of purple ink where they had been. The ubiquitous sergeant-majors — small, yellowish fish with black stripes — drifted up in clouds to investigate our masks and hands.

Salty Dog Talk

Snorkeling was beautiful, but sailing was a blast. I'd never been on a sailing ship, though I'd read novels about them, and had built models, learning some of the specialized language in the process. I must tell you that sailors, however careless their speech on land, brook no departure from nautical jargon when afloat. Ropes do not exist; there are only lines, halliards, sheets, and braces. A deck is not a floor, and a wall is a bulkhead. Much of this is actually important: If the wind freshens and the captain tells you to loosen the jib sheet, you'd better know what he's talking about and how to do it — fast.

We learned about some of these things while the boat was crashing along at about eight miles an hour, which doesn't sound like much. But when the craft is heeled over by the wind to 35 degrees from the vertical, with water foaming the length of the boat inside the lee rail, eight mph is — well, exhilarating.

Early in the trip, my foot slipped while I was trying to help tack the ship in a stiff wind, and I fell into the lee guardrail. I acquired colorful bruises and



AUTHOR PHIL MEAD (ret.) reenters the Windrider after a snorkeling expedition. Even in these warm waters, the shirt fends off chill.

a sliced earlobe, which required stitching at an island clinic. The result looked silly rather than piratical, and more than once I heard the cynical comment that it was an expensive way to have one's ears pierced.

No Time for Folderol

We took along a deck of cards, which was unrealistic; there was no time for such folderol. If we

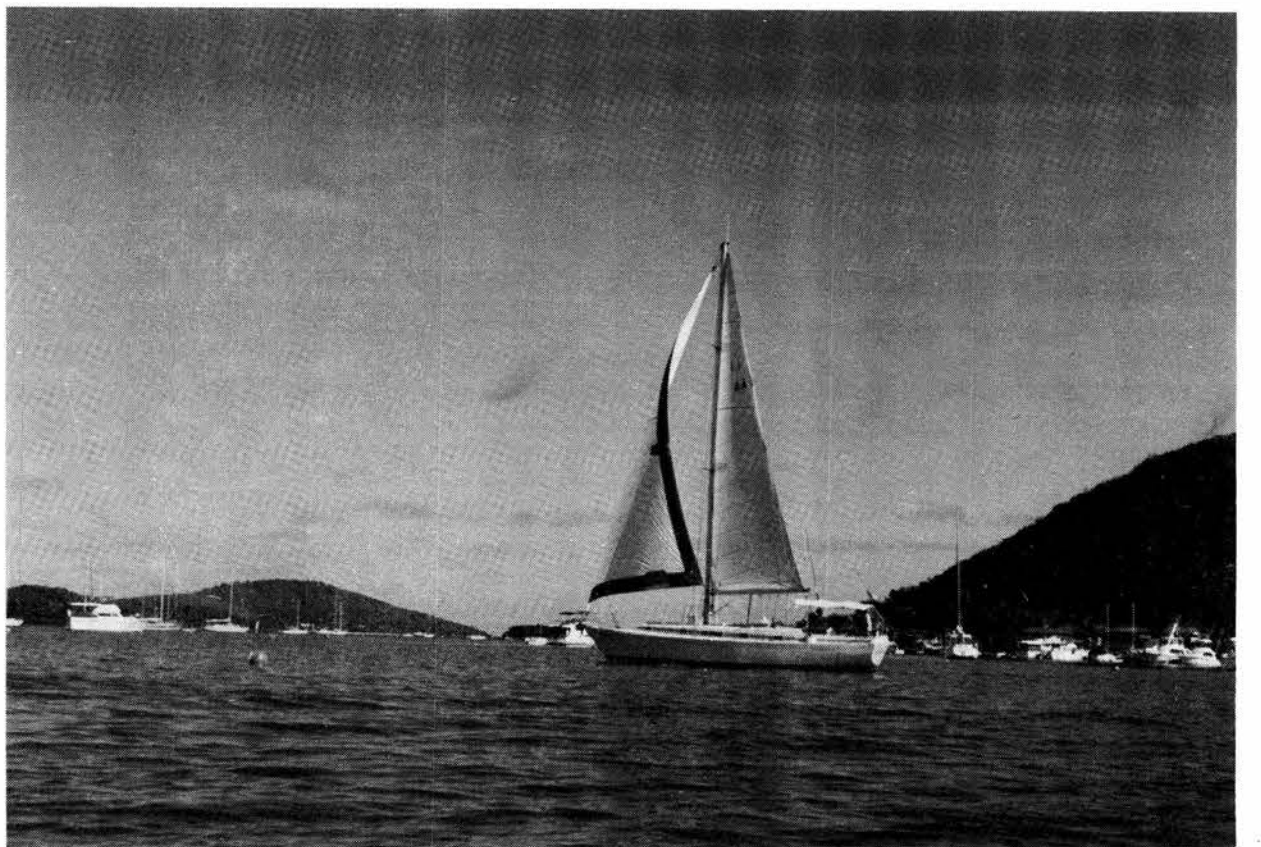
weren't eating or washing dishes, we were helping handle the boat, waiting for the right photographic moment, or just soaking up scenery. In an anchorage, after supper, we might sit around the cockpit and trade jokes for a while, listening to the fishes leaping from the dark waters, but in a short time we were very glad to make up the beds and fall into them.

We went ashore for dinner in a couple of ports, but mostly we ate aboard. Packages of first-class food were furnished as part of the tour, and there was more of it than we six could eat during the cruise. We took turns cooking and cleaning up; each couple was responsible for all meals in a given day. One of our party was a superb cook. On Thanksgiving we gorged on Cornish game hen, with cranberry jelly and other goodies.

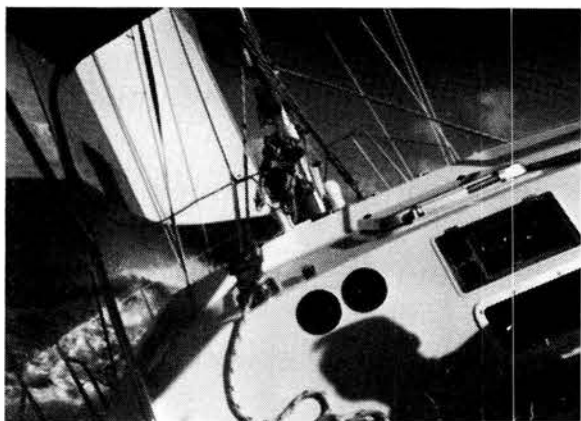
If one was restless after the ship was asleep, one could creep on deck and observe stars in numbers and apparent proximity rarely seen by city dwellers. The volcanic British Virgin Islands are generally high and steep, unlike the flat sandspits of the Bahamas, and when we anchored in the lee of one of them, we could feel the loom of them on the darkest night.

The captain would take us wherever we wished, but for the best use of our time, we sailed always in

(Continued on Next Page)



WINDRIDER, which has sailed the Caribbean with dozens of Sandians and DOEans as the crew, is owned by DOE retiree Bill Horton.



ON THE OPEN OCEAN, the seas and the winds put the thrills into sailing. It's the horizon (left) that's — er — horizontal.

(Continued from Preceding Page)

Antilles Sail

the vicinity of Tortola. Early on, we visited Herman Island, Robert Louis Stevenson's model for *Treasure Island*. Our pathways between islands were those of Drake, Hawkins, Villeneuve, and Castaneda, as well as of Edward Teach and Horatio Hornblower. From the wheel of a sailing vessel, however small or modern, it is not overly difficult to see in the misty distance the half-moon shapes of Columbus' caravels or the cannon-lined three-masters of the many nations that in the previous two centuries vied for control here.

How to Make Friends

There were drawbacks. Six people in a 43-foot boat become very neighborly indeed. Portholes have no curtains, and unless the boat is under way, few sounds or movements go undetected. Swimming or snorkeling gear, unless carefully rinsed in clear water, after a few hours develops an aroma that can make a small cabin uninhabitable. Once wet, nothing can be dried, because it will either blow away or get re-wet in one of the frequent squalls.

Fresh water is at a premium, of course. Showering is spartan; one wets his person, turns off the water, soaps and scrubs, and then rinses, for a total water expenditure of about two gallons. Bathing *à deux* is encouraged, but in a floor space of about eight square feet, though fun, is inefficient. Bulkheads, it turns out, are as rough on elbows and foreheads as on walls.

I encourage everyone to try it. The sailing trip, that is.

Logistics: Boat rent and food: \$550. Airfare Albuquerque to Tortola, BVI: \$434. Hotel (two persons, one night): \$63. Boat to airport: \$12. Contact Bill Horton (DOE ret.), 883-7504, charter captain.

Spare Parts For the Human Machine

Bionic patients these days are not limited to carrying artificial limbs, joints, plates, paddings, teeth, or even heart pacemakers. And the patients' ages are not limited to senior-citizen category: Fetuses have already been implanted with devices that help them survive.

A variety of shunts made of silicon rubber are now available for diseased or malformed organs that cannot naturally dispose of abnormally large amounts of fluid. Not only can the eyes have it, but so can the ears, brains, lungs, and gut.

The laurels go to John Newkirk, a retiree from the University of Denver who never retired from metallurgical engineering. What it took was an engineering application of special materials that won't be rejected by the body.

Newkirk's overview of implantation history has it that most foreign materials — sticks and stones being the earliest examples attempted — are not compatible with the body. And the first experimental implants, arrowheads, were usually encapsulated and rejected (if the "patient" survived). Many other materials act very much the same way.

However, special biomaterials — including certain alloys, polymers, and ceramics — allow living tissue to grow right up to them without irritation and inflammation. Silicon rubber is one of them. It also has the special advantage of being flexible. So it's a natural candidate for devices that are permanently sewn into a body part.

Case Histories

Newkirk has evolved a specialty in internal shunts that are composed of tubes and one-way valves (cross-slits cut into plugs). There are several different uses for the basic design.

In a condition called hydrocephaly, so much CSF (cerebrospinal fluid) accumulates in the cavities within the brain that the skull swells. A hydrocephalic fetus may have a head that's several times normal size. Moreover, the continually produced CSF builds up pressure, compressing the brain so much there is often irreversible damage.

Newkirk came up with two routes for his CSF shunt. One travels through the skull, under the skin into the inner jugular vein, through a major vein, and ends in the right atrium (venous chamber) of the heart. The other route goes out the skull, under the skin, and ends in the abdominal cavity.

The system is pretty simple. A silicon rubber tube with a one-way valve (that opens at low pressure) in the brain has a compressible volume in the middle (allowing some pumping action) with a one-

way valve at the other end. A build-up of fluid pressure at one end results in fluid flow to the other end and out into another part of the body.

He gave away a few hundred samples. It worked and he was in business: providing a mechanical solution to clinical problems. The cases he tackled all involved similar mechanics.

The next step was control of intractable glaucoma. This disease involves excess fluid (aqueous humor) in the front chamber of the eye. Newkirk diverted the liquid — from an area between the lens and the cornea — to a muscle.

Then came Ménière's disease. Here, pressure on the inner ear from a sac overfilled with lymph causes dizziness, constant loud buzzing, and hearing loss. Newkirk filtered the fluid with a silicon sponge and sent it off into a nearby bony structure where it could be absorbed. He added two gold slivers to the ends of the shunt so there'd be opaque reference points on a radiograph (used to monitor the implant's stability).

Then he tackled ascites, accumulation of "sweat" from the liver inside the abdomen. Sometimes, as much as 35 liters can collect. This he had shunted into the venous system. One route goes directly into the heart, "where it mixes efficiently — like the waters in the Mississippi delta," Newkirk says. Another route for people with heart conditions goes through a major vein in the leg.

The placement turned out to be somewhat reversible for cases of pneumothorax (water in the lungs). This liquid, which can collapse a lung, is shuntable into a healthy abdomen. Furthermore, the patient can regulate the pumping action somewhat by breathing more heavily (the tube is attached to the ribs).

Reaping the Rewards

Although Newkirk's company, Denver Biomaterials Inc., is doing relatively well as a specialty business, the rewards are much bigger than simply extra income. Newkirk had saved his three-year-old daughter from an advanced case of hydrocephaly with his own shunt. Later, a surgical implantation of his shunt into a fetus was a world first that put him on the covers of *Time*, *Life*, and *New York Times Magazine*.

The work may also have saved him from boredom in his retirement. "It's grown into something that will go a long way, as long as I can stand up and walk," he says. He's found out there *is* life after work. ●ID



SIX SANDIANS SING in the NM Symphony Orchestra Chorus. From left, tenor Rick Chapman (6223), bass Steve Billups (7233), tenor John Brabson (5255), soprano Doris Hoffman (1512), baritone and chorus president Michael Hannah (2614), and tenor Paul Brannan (5246). Two events are coming up — with a 25 percent discount for Sandia employees. Works by Verdi, Mascagni, and Strauss will be featured as a concert pair at Popejoy Hall on April 10 and 11, at 8:15 p.m. And on May 3, wrapping up one of the busiest concert seasons in 14 years for the NMSO Chorus, is Schubert's Mass No. 6 — the last Sinfonietta Series chamber concert. For tickets, call 843-7657.



Here is a volunteer opportunity for employees, retirees, and family members. If you would like more information, call Karen Shane (3163) on 4-3268.

AMERICAN CANCER SOCIETY is seeking volunteers for two separate projects:

1. Women are needed to answer a telephone bank during an awareness campaign on self-detection of breast cancer April 20 - May 1. Phone banks will operate from 8 a.m. to 10:30 p.m. each day, including weekends.
2. Volunteer crusaders are needed to conduct an educational and fund-raising campaign during the Cancer Society's annual neighborhood block program April 27 - May 11.

NSC Honors Retiree

Retiree Jerry Jercinovic recently received word that he's been elected a lifetime member of the R&D section of the National Safety Council (NSC). He's only the fifth person to be so honored.

Jerry's election recognizes his accomplishments during 19 years as manager of Sandia's Safety Engineering Department (now part of Environment, Safety, and Health Department 3310.) During his tenure in the safety organization, Sandia's safety record (in terms of accident rates) was comparable to the "all-research" average for the period — an outstanding record for a research and development and field testing organization such as the Labs, according to NSC.

40 Years Ago

Jerry transferred from Los Alamos, the home of the Manhattan Project (see "He Was There"), to Sandia in 1947. "My first assignment was facilities engineering for the handling and assembly of weapons — part of the time at full-scale tests in the South Pacific," he says. "Next, I became the Labs' resident engineer at the Norfolk [Va.] Naval Shipyard. My job there was converting aircraft carriers so they could carry nuclear weapons."

When Jerry returned to Albuquerque, he became special assistant to Bob Henderson, technical associate director at Sandia in the early days. "We had very few employees [between 200 and 300] back then, so everybody was kind of a jack-of-all-trades," says Jerry. "At one point I was the Labs' classification officer, worked in procurement (there were two of us doing all the purchasing), and managed a department of TDSRs [technical department staff representatives, now called administrative assistants]."

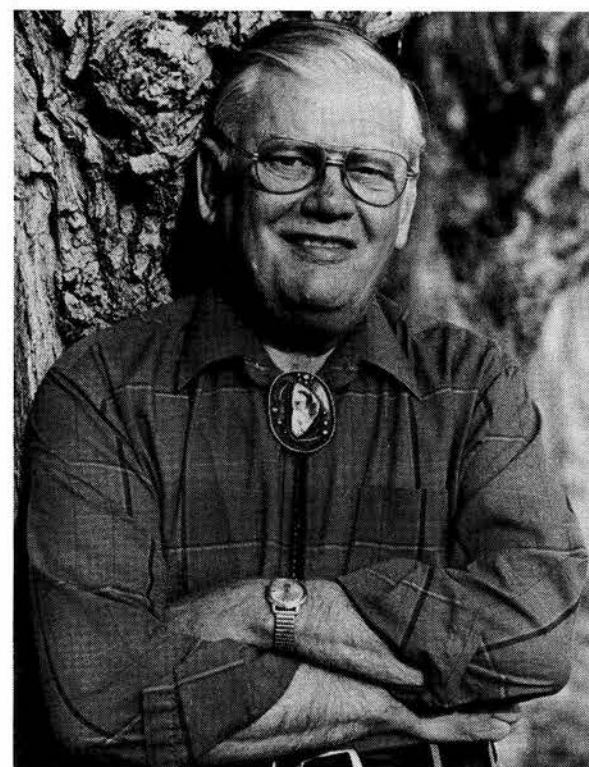
In the mid-60s Jerry became manager of the Safety Engineering Department. He moved to the design engineering organization for a couple of years before returning to Safety in 1971. There he remained until his retirement last May.

Community Involvement

In a recent newsletter announcing Jerry's lifetime membership in its R&D section, NSC also recognized his many years of involvement with community organizations: PTA, Boy Scouts, Red Cross, Medical Aids Research Foundation, ASME, Greater Albuquerque Police & Fire Safety Association, and the Greater Albuquerque Safety Association. He also served on the City Charter Revision Committee and the City/County Emergency Medical Services Board.

Jerry held several offices in the National Safety Council during his "safety" years at the Labs. He was general chairman of the R&D section in the late 70s. Until his retirement, he was a member of the Industrial division's executive committee and the NSC Board of Directors. Kudos from NSC are nothing new to Jerry; he received its highest honor — the Distinguished Service to Safety Award — in 1984. Fewer than 175 people have received the award in NSC's 75-year history.

"NSC involvement was good for me and good for Sandia," says Jerry. "The organization puts a tremendous resource — and all kinds of expertise — at one's fingertips. I still keep in touch with a lot of my NSC contacts, and I'm delighted to be a lifetime member in the R&D section." ●PW



RETIREE JERRY JERCINOVIC, long-time manager of Sandia's Safety Engineering Department, is now a lifetime member of the National Safety Council's R&D section.

One Jerry Error

He Was There

Jerry Jercinovic's long career began in 1944 when he was assigned to the Corps of Engineers at Los Alamos, where he worked on the Manhattan Project. He was part of the explosives assembly team for the first atomic bomb, detonated at Trinity Site on July 16, 1945. Part of his recollections from that day: "It was early morning — pitch-black. I was lying on the ground, about 20 miles away, when the shot went off. A dazzling white light instantaneously illuminated the [30-mile-wide, 50-mile-long] valley below me and my

buddies. Felt like a 1000-watt light bulb went on inside my head."

Then Came the Fireball

"Then came the fireball — about a mile in diameter, and the most brilliant colors I've ever seen — and a giant cloud of dust moving in all directions. Truly an awesome sight." Jerry confides he didn't think the shot would go off as planned: "I thought there'd be a click instead of a boom. But I was wrong, wasn't I?"

B-1 BOMBER took 210 hours to build — with 128 pieces — for Andy Rogulich (5123). The model, that is (he's in aircraft compatibility so he works on the real thing at Sandia). And, yes, the paint is original: Andy got it from Rockwell. "It took time and patience," says Andy. Now the 3'x3' model is hanging in his office, partly thanks to the guy who bought the kit for him: fellow co-worker Don Gluvna (5123).



flex@hiback

Q. I would like information on the electric passenger cars used at the Labs. Performance data, price, and how to contact a dealer or the manufacturer would be helpful.

A. The DOE is conducting a long-term test and evaluation program for electric vehicles. SNLA is one of several public- and private-sector fleet operators participating in this program. Data on these fleets are collected by the site operators and analyzed by the Center for Transportation Research at Argonne National Laboratories.

SNLA has been in the program since 1981. The fleet includes seven "Electricas," manufactured by Jet Industries, Austin, Tex. They are small two-door sedans with a curb weight of approximately 3300 pounds. The range is 30-35 miles, depending on usage. They have a top speed of 65 mph. To date, this fleet has accumulated approximately 38,000 miles, with an average road energy efficiency of 0.64 kilowatt hours per mile. Maintenance has been minor, with typical problems being battery connections, cables, chargers, and the 12-volt auxiliary battery. Driver acceptance has been favorable, and the public awareness program is a success.

SNLA has eight other electric vehicles (three Southcoast Technology Rabbits, one Jet Industries 007, three Jet Electrica Van 600s, and one Jet Industries 750 pickup) that are used to evaluate the vehicles' components, control systems, batteries, instrumentation, and human engineering. These evaluations are conducted for the Aerospace Corporation and, more recently, for Idaho National Engineering Laboratory.

Unfortunately, there are currently no manufacturers of electric vehicles in the U.S. The three that were in the business closed their doors about five years ago. The vehicles mentioned here were designed to be price-competitive with the gasoline counterparts at that time. That price ranged from \$8000 to \$9000, based on a minimum production of 100,000 vehicles. The United Kingdom has a commercial van available for a base price of \$19,000. (Public Service Company of New Mexico has three located in Albuquerque. If interested, call Mr. Lechner, 848-2331.) General Motors will be producing a van within the next year.

The R&D on electric vehicles is continuing at a slow pace. But I believe that it will eventually be proven that the electric vehicle can be a viable option to the internal-combustion-engine vehicle in the future. It is quiet, efficient, non-polluting, and fun to drive.

Dick Bassett - 2564
Electric Vehicle Project Mgr.

Reduce Your Stress Level — Or Else!

As a current radio ad for a ballpoint pen puts it, "Put your neck on the line, but get the job done."

All of us Type A folk are addicted to that kind of challenge. And here at Sandia we've got lots of challenges and lots of Type As — it's probably a precondition for employment.

When your neck's on the line, however, stress does tend to accumulate. So the Women's Program Committee invited stress management expert Beth Moise to address a luncheon meeting of Sandia women last month. Her talk, however, was not gender-specific, so we'll hit some high points here.

(Digression for those who haven't read any psycho/sociological literature in the last decade or two: Type A personalities are those —

- who feel constant pressure — and love it.
- who live in constant motion — walking, talking, eating, etc.
- who are very impatient.
- who must have the pressures of deadlines to spur creativity, insight.

• who make lists — of their lists. That is, Type As are stress prone; they're future heart attack victims. Type Bs are the opposite of Type As.)

"Type As need to slow down, shut up, and say half of what they're tempted to say," said Beth. "Bs, on the other hand, need to speed up and speak up."

"The important role of Bs is that they're good listeners," Beth continued. "Type As feel a thought's of no use unless they make someone listen to it."

"The great leaders," Beth pointed out, "are halfway between A and B."

Don't Fight, Cope

So what can you do if you're an incorrigible Type A? "Learn to cope," said Beth.

First, accept reality — in this case, the fact that whatever's stressing you won't go away.

Second, manage your diet. Sugar, salt, and caffeine trigger stress, so cut them out or cut them down. (That's tough; coffee is the Type A's Official Working Fluid.)

Third, get some exercise. Walk around the block — twice. "You'll get twice as many reports written, or loads washed," noted Beth.

Fourth, adjust your attitude. You find yourself screaming, "I can't stand this, I hate this," or feeling sorry for yourself and muttering, "They were mean to me," or whining, "It just isn't fair!" ("Where were we promised justice on a daily basis?" asked Beth.) It's time to form some new habits, change some reactions, adopt psychologist Albert Ellis's "I wish this were different, but it's not" attitude.

So, says the quintessential Type A, isn't there something beyond these coping saws that I can use now?

"Even on a busy day," said Beth, "find the time to slow down and relax for just a few minutes. Do a head-to-toe survey of body tension. Consciously relax your head, neck, shoulders, arms and hands, torso, and so on. Do some deep, slow breathing. Picture a tranquil scene — mental imagery is an invaluable stress-reduction tactic."

"Learn to say 'no,' and firmly," Beth continued. "And when life's tough at work, get some satisfaction from your non-work environment — hobby, volunteer work, sports, and so forth. The new perspective will help."

"Use your support systems," Beth added. "Talk with someone you respect and trust. And that's not necessarily your most intimate friend. Just having coffee [or whatever non-stress-producing liquid you've replaced it with] with that person three times a year may be enough."

"Finally, choose your battles," Beth concluded. "Think it over, laugh at yourself, sleep on it, then decide whether to do battle. Don't go to the mat over everything."

Still need more on coping with stress? Medical's TLC program includes a stress-reduction class. Sign up when it's your turn in the program. •BH



SCARCELY SHOWING the stress of the luncheon speaker, Beth Moise (left) discussed her background with Sylvia Tsao (2147). In introducing Beth to a Women's Program Committee-sponsored luncheon last month, Sylvia noted that Beth is the Human Resource Coordinator for Mountain Bell, teaches at UNM's School of Management, and has her own consulting firm. Beth's speech on stress reduction was her second during the past year for the group of Sandia women.

Events Calendar

April 10-12 — "The Real Thing," New Mexico Repertory Theatre presentation of Tom Stoppard play; 8 p.m. (2 p.m. Sat. & Sun. matinees), KiMo Theatre, 243-4500.

April 10-13 — "Ice Capades," 7:30 p.m., Tingley Coliseum, 265-1791.

April 10-19 — "Lila Baal Jones," premiere play by Albuquerque playwright Grubb Graebner; 8 p.m. Fri.-Sat., 6 p.m. Sun.; Vortex Theatre (Central & Buena Vista), 247-8600.

April 10-19 — "Oh Dad, Poor Dad, Mama's Hung You in the Closet, and I'm Feeling So Sad," comedy; 8 p.m. Fri. & Sat., 6 p.m. Sun.; Keystone Theatre (3211 Central NE), 255-6819.

April 10-26 — "Wait Until Dark," mystery by Frederick Knott; 8 p.m. Tues.-Fri., 6 & 9 p.m. Sat., 2 p.m. Sun.; Albuquerque Little Theatre, 242-4750.

April 10-27 — Pueblo Indian Museum sale: paintings, lithographs, prints, woven textiles, pueblo pottery including Casas Grandes (all are museum storage excess and/or duplications); 9 a.m.-5:30 p.m. Mon.-Sat., Indian Pueblo Cultural Center, 843-7270.

April 10-May 17 — MA/MFA Exhibition, annual event showcasing work by UNM graduate art students; Upper West and Van Deren Coke galleries at UNM Art Museum, 277-4001.

April 10-May 17 — Exhibit, "Lucy Maki Paintings"; 10 a.m.-5 p.m. Tues.-Fri., 1-5 p.m. Sat. & Sun.; Jonson Gallery, UNM, 277-4967.

April 10-July 31 — Exhibit, "Maya: The Image from the Western World"; 9 a.m.-4 p.m. Mon.-Fri., 10 a.m.-4 p.m. Sat.; main gallery, Maxwell Museum of Anthropology, 277-4404.

April 11 — "Children's Pillow Concert," Chamber Orchestra of Albuquerque, for elementary-age children and their parents; 2 p.m., UNM Union ballroom, 881-0844.

April 11 — National Garden Week Celebration: tour of three private Albuquerque gardens, 10 a.m.-2 p.m.; African violet show at Garden Center, 2-5 p.m.; Albuquerque Garden Center (10120 Lomas NE), 296-6020.

April 11-12 — Enchanted Cat Club show; 9 a.m.-5 p.m.; Flower Bldg., NM State Fairgrounds, 265-1791.

April 12 — "Women in Theatre: Early Beginnings of Blacks," presented by Newchild Productions, telling how it all started for black women in theatre; 3 p.m., South Broadway Cultural Center, free, 848-1320.

April 14 — The Sierra Wind Quintet, UNM Dept. of Music; 8:15 p.m., Keller Hall, 277-4402.

April 16 — The Darius Milhaud Celebration Concert, 8:15 p.m., Keller Hall, 277-4402.

April 16-18 & 29 — "Jacques and His Master," Milan Kundera's modern definition of a classic fate: Who is the servant? Who is the master?; 8 p.m., Rodey Theatre, 277-4402.

April 17-18 — Gathering of Nations Pow-Wow: dance competitions, arts & crafts, Miss Indian World, 5K & 10K walks; University Arena, 831-1820.

April 17-18 — Southwest Ballet, "American Collection: Billy the Kid, Cakewalk, and Stars & Stripes Pas De Deux," season finale; 8:15 p.m., Popejoy Hall, 294-1423.

April 18 — NM Old Time Ropers, 10 a.m.-4 p.m., Bernalillo County Sheriff's Posse Arena (Edith and El Pueblo Rd. NE), free, 243-3696.

April 18 — Mozart on Fifth, ensemble performing ragtime, swing, classical, & pop music; 8 p.m., South Broadway Cultural Center, 848-1320.

April 18 — "Day of Percussion," presented by UNM Dept. of Music, 8:15 p.m., Keller Hall, 277-4402.

April 19 — Duke City Jamboree benefit, variety show including the Watermelon Mountain Jug Band; 2 & 6 p.m., KiMo Theatre, 848-1370.

April 21 — "Musical Jokes," Friends of Music benefit, UNM Dept. of Music, featuring faculty artists; 8:15 p.m., Keller Hall, 277-4402.

April 22 — One-woman show, Jean Jordan in "Here's Jolene," confessions of a small-town USO entertainer; 7:30 p.m., free, South Broadway Cultural Center, 848-1320.

April 22-25 & 30 — "The Last Days of the Dixie Girl Cafe," play by Robin Swicord; 8 p.m. (12:30 p.m. matinee April 24), Rodey Theatre, 277-4402.

April 24 — Kingston Trio, 8 p.m., KiMo Theatre, 848-1374.

Welcome

Albuquerque

Carol Fryer (6454)
Lawrence Guttke (7811)
Peter Karnowski (9231)

Connecticut

Stephen Brown (1542)

Florida

David Bodette (6421)

Illinois

Jeffrey Rickey (2855)

New York

Michael Skroch (5252)

Virginia

Douglas Lawson (9011)

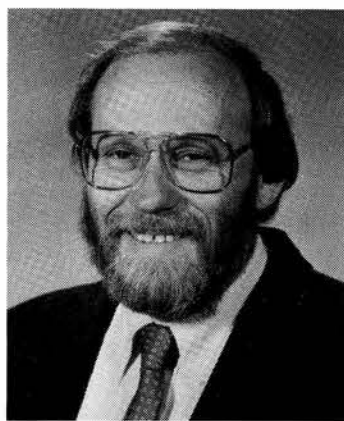
MILEPOSTS

LAB NEWS

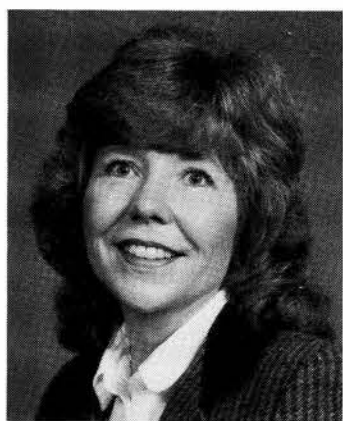
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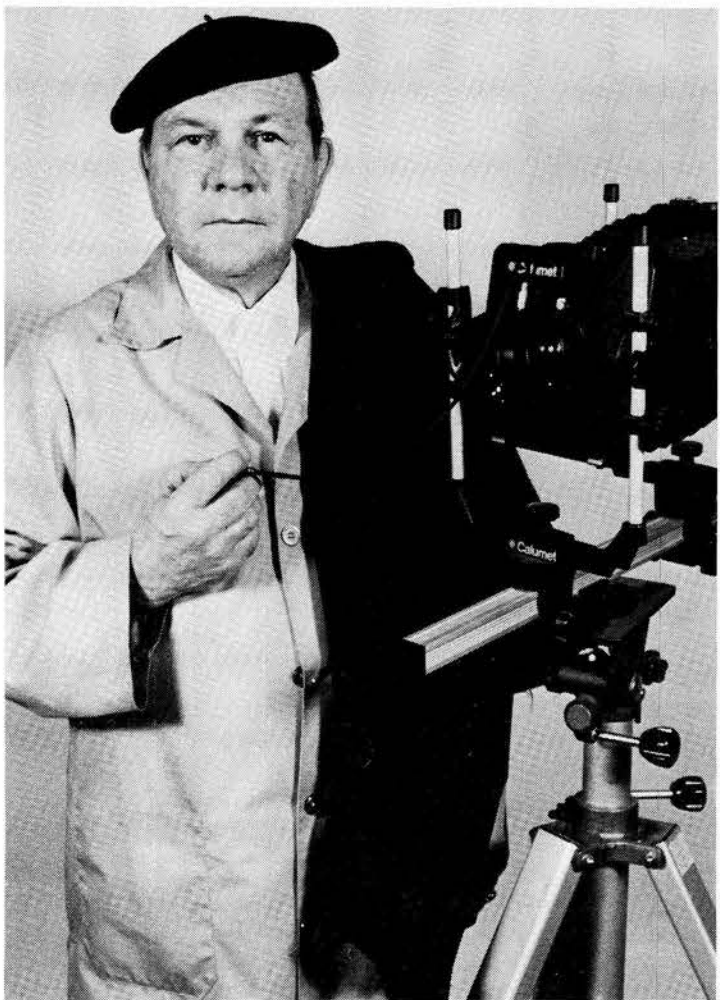
Cathy Benavidez (3731) 10



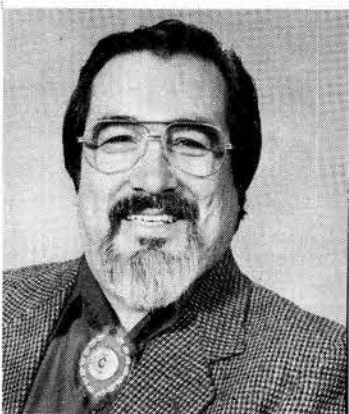
Ken Miller (400) 20



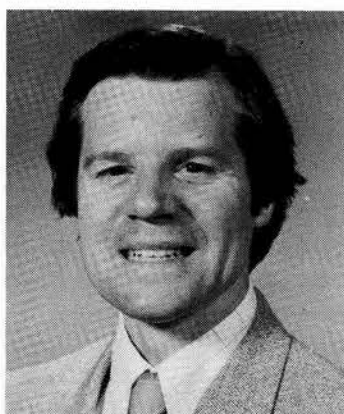
Lee Ann Hubbs (8262) 10



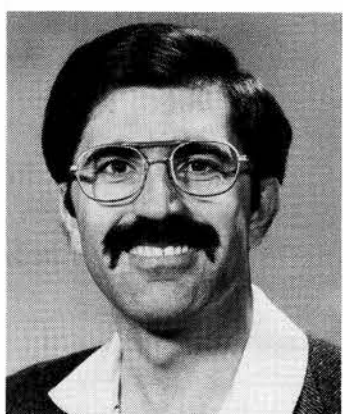
Tom Zudick (3155) 35



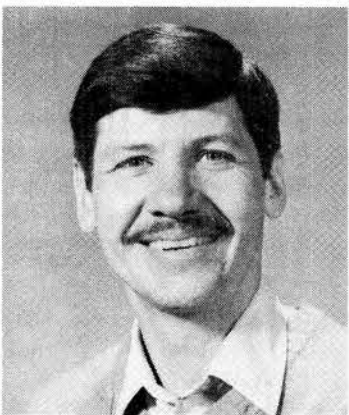
Rudy Martinez (3153) 25



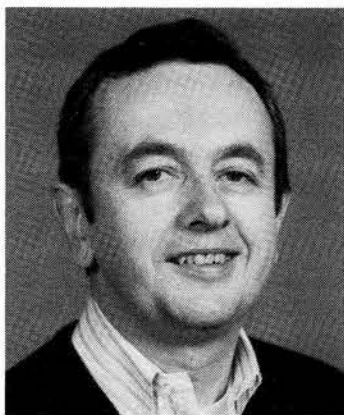
Jamie Wiczer (2531) 10



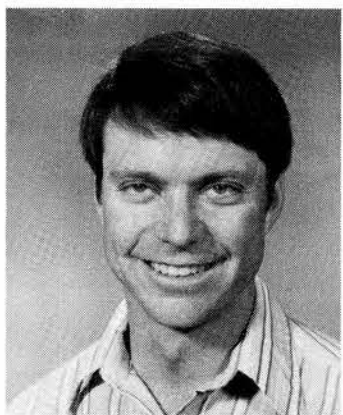
Carl lafonaro (3431) 10



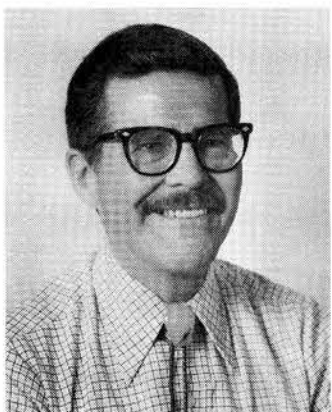
Jeff Kluck (9221) 15



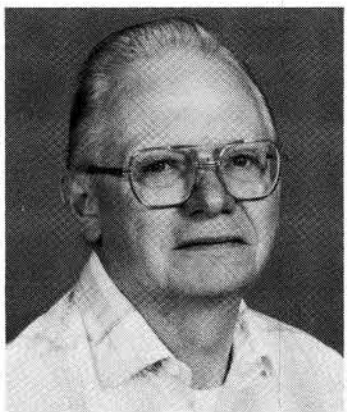
Bob Gallagher (8474) 15



Tom Kerschen (6221) 10



Jim Clemons (7171) 35



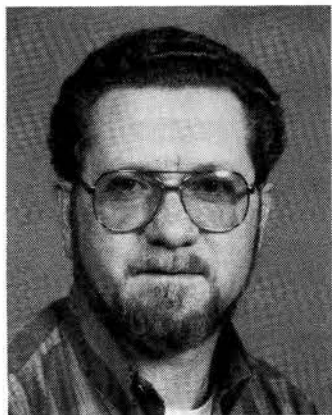
Clarence Karfs (8314) 30



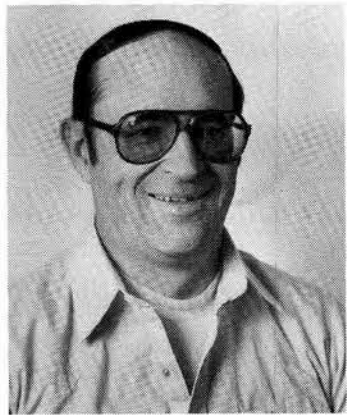
Donald Wright (7222) 20



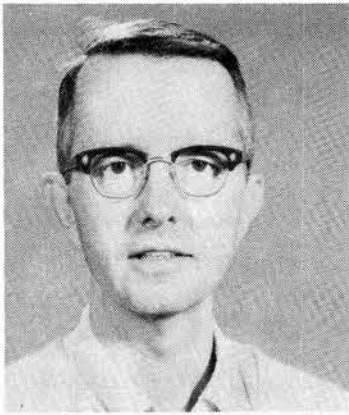
Jim Davis (3423) 30



Tim Roudebush (8262) 20



Diwiatt Barker (7171) 20



James Poukey (DMTS, 1241) 20

Golf — Tee-up and make your swing for the Fund-Raiser Golf Tournament for the Society of Hispanic Professional Engineers at NMSU on April 24. The tournament takes place at the Picacho Hill Country Club in Las Cruces. Registration fee is \$7.50; green fee, \$21.08; and cart rental, \$7.38/person. For more information or to register, contact Orlando Vigil (7864) on 6-5179.

Soccer — The Summer League Recreational

Soccer meeting is scheduled for April 15 at the Colorado Club staff room from 5-6 p.m. Membership is open to all Sandians, DOE employees, and contractors. All interested parties are invited to attend this meeting. For more information, contact Erin Hallen-burg on 4-8807.

Senior Olympics — The "1987 Senior Sports Spectacular - Senior Olympics" is under way. Events

include dancing, billiards, table tennis, horseshoes, tennis, swimming, bowling, basketball free throw, and track and field. The statewide Senior Olympics is May 29 and 30 in Roswell. Events are open to everyone over the age of 55 in both male and female categories. Pick up applications and events calendars in the LAB NEWS office in Bldg. 814 (no phone calls please), at your nearest Senior Center, or call Karen on 761-4025.

UNCLASSIFIED ADVERTISEMENTS • UNCLASSIFIED ADVERTISEMENTS • UNCLASSIFIED ADVERTISEMENTS • UNCLASSIFIED ADVERTISEMENTS

Deadline: Friday noon before week of publication unless changed by holiday. Mail to Div. 3162.

Ad Rules

1. Limit 20 words, including last name and home phone.
2. Include organization and full name with each ad submission.
3. Submit each ad in writing. No phone-ins.
4. Use 8 1/2 by 11-inch paper.
5. Use separate sheet for each ad category.
6. Type or print ads legibly; use only accepted abbreviations.
7. One ad per category per issue.
8. No more than two insertions of same ad.
9. No "For Rent" ads except for employees on temporary assignment.
10. No commercial ads.
11. For active and retired Sandians and DOE employees.
12. Housing listed for sale is available for occupancy without regard to race, creed, color, or national origin.

MISCELLANEOUS

SOFA AND CHAIR, solid oak frame w/cushions, \$300 OBO; doghouse, \$35; electric lawn mower, \$35. Witkowski, 299-6402.

HOTPOINT GAS DRYER, \$150. Renschler, 293-5782.

CERAMIC CHESS SET, \$40; chrome-plated vibrator, \$40. Pinkerton, 255-2505.

COLEMAN CAMP STOVE, used once, gas, \$25; solid ox welder, new, \$20. Murata, 881-8459.

CHIPPENDALE SOFA, full-length, down cushion; leather occasional chair; white fabric chair; misc. antique wood chairs. Bland, 255-7026.

TWO SOLID BRASS LAMPS, 35" tall, \$75; 37" square chrome and glass table, w/4 cane chairs, \$250. Barr, 821-5870.

HIDE-A-BED couch, \$300 OBO. Brown, 823-9155.

DOUBLE-HUNG WINDOWS, steel sash and frame-glazed: 2 are 24" wide, 53" high, 1 is 24" wide, 61" high, \$10/ea. Stamm, 255-2640.

AKC CHINESE PUG PUPPIES, \$225; 14" rims, true spoke, deep dish, \$300. Bernal, 869-2305.

SLOTTED MAG WHEELS w/tires; two wide 50s tires; Sanitare vacuum cleaner, \$75. Vigil, 296-3590.

ARGUS SLIDE TRAYS: 65 Argus-60 slide trays and 541 projector, \$20; two 5-gal. gas cans, \$5/ea. Robb, 821-2999.

ELECTRIC TYPEWRITER, Brother cassette "Correct-O-Riter I" w/case, \$79. Reda, 821-3817.

ROCKER-RECLINER, brown tweed, \$125; Magnavox console stereo, \$150 OBO (consider trade for bookcase/storage unit). Orr, 892-5843.

FREEZER, \$200; child's desk & chair, \$30 or consider trade for live goose and duck. Lackey, 869-9333.

SPA MEMBERSHIPS: 2 executive lifetime memberships at Cosmopolitan Lady coed spa, \$300/ea., \$575/both. Davis, 298-5868.

HOUSEHOLD FURNITURE, baby furniture, beds, TVs, etc., Sat. & Sun., 9-5, 1213 Arvilla NW. Horton, 344-5316 or 883-7504.

GOLF CART: Bag Boy automatic pull cart and bag, \$70. White, 293-2219.

REDWOOD LAWN FURNITURE: 2 chaise lounges, coffee table, 2 arm chairs, footstool, picnic table & benches, \$195. Martin, 869-2049.

BORDER COLLIE PUPS, AIBC-registered, parents on premises, ready on

4/15, shots and papers included, \$150. Orear, 256-1941.

SEARS REFRIGERATOR, 14 cu. ft., copper-tone, \$75; GE portable dishwasher, \$60; medicine cabinets w/stainless steel rims, 2 ea./\$15. Pavelko, 296-3346.

FREE FERTILIZER: composted horse manure, you dig, in North Valley. Moore, 345-4030.

TABLE with 6 chairs. Maestas, 831-4072 after 5:30.

WEIGHT BENCH w/leg lift, weights, curl bar, press bar, and dumbbells, \$45; kitchen table and chairs, \$40. Johnson, 298-8621.

ICOM IC-2AT transceiver, 2-meter, \$175; Realistic Pro-25 8-channel scanner, 8 crystals, 2 antennas, \$75. Hufnagel, 294-5949.

STUDENT DESK, antique finish. Westman, 881-0471.

BICYCLE TOURING WHEELS, Araya, Suzue, tires, Suntour freewheel, \$50; Solex TIDDA carb; Holley 5200 carb, adapted for Datsun. Van-Deusen, 291-8196.

PROM DRESS, black & white stripe, G. Sax, size 5, \$50 OBO. Maloney, 821-6661.

GUITAR, Pirmentel steel strings, rosewood body, built-in pickup, \$995. Mills, 823-4484.

ROTARY MOWER, gas, grass catcher, \$60; upholstered chair, blue/turquoise floral pattern, \$30; marble-top lamp step table, \$8. Duvall, 881-4406.

SUPPORT POLE for basketball backboard, 4-in. pipe construction, \$25. Gendreau, 268-3436.

TWO GUITAR PEDALS, Harley-Davidson Sportster seat, steel-sash windows, skittle pool, fire screen & tools. Gonzales, 344-4933.

LAWN MOWER, 21", rear bagger, \$150; GE 25" color TV, console, \$200. Subramanian, 821-1705 before 9.

TOSHIBA FLOPPY DRIVE, 360K, 1/2 ht., \$85. Siemers, 296-0651.

FREEZER, SOFAS, chair, double bed, misc. household goods, moving sale, 415 Aliso Dr. SE, April 11 & 12. McCallum, 268-1158.

KING-SIZE WATERBED w/electric heater, \$60 OBO. Liguori, 256-3613.

ELECTRIC MOWER w/catcher, Sunbeam twin-blade, \$75. Weber, 897-2989.

COUCH, earth-tone colors, \$75 OBO. Allen, 823-2947.

AIR CONDITIONER, 21K BTU, cost \$800 new, sell for \$300 OBO. Gosler, 828-0728.

AM/FM CASSETTE-PHONO, Radio Shack, w/coaxial speakers, \$100; Wagner power roller, \$40; 22-cal. semi-automatic rifle w/scope, \$50. Mowry, 299-2526.

GAS DRYER, Kenmore, almond, heavy-duty, Wrinkle-Guard I, 6 yrs. old, \$150 OBO. Krause, 299-0931.

CHROME REAR BUMPER for '85 Dodge pickup, removed when new, \$65. Shaw, 296-2531.

TWO SIAMESE CATS, free to good home, 2 yrs. old, sprayed females, accessories included. Scheffer, 294-3434.

GOLD NYLON CARPET w/pad, 82 sq. yds., short-shag, \$3/sq. yd.; 26 sq. yds. red nylon shag w/pad, \$3/sq. yd. Connor, 268-8718.

RATTAN SOFA and swivel rocker, earth-tones, \$100; pony coach camper for long bed mini-truck, has refrigerator, \$1500. Kepler, 296-0402.

COFFEE TABLE, 2 end tables, \$75; sofa chair, \$40. Falacy, 293-2517.

ZERO HALLIBURTON CASE, 18" x 12" x 6", foam, lock, \$175 OBO. Eley, 255-2617.

BED REST, \$10; vanity lamps, \$15/pr.; Samsonite luggage, 26", hard sides,

tan, w/hangers, \$5; platform rocker, reversible cushions, \$45. Easton, 256-7717.

VIOLIN, Roth, full-size, \$350 OBO. Kissam, 881-2895.

APPLE IIe COMPUTER, 128K, amber monitor, disk drive, Epson printer w/buffered interface, AppleWorks, AppleWriter, manuals, extras. Miller, 293-7080.

ECHO CHAIN SAW, Electrovoice speakers, corduroy ski suit, queen-size pine poster bed, full wet suit, sailcloth, best offers. Blake, 881-1663.

GOLF CLUBS: men's right-handed, w/bag; softball glove; Commodore home computer, still in box. Shorten-carrier, 292-3575.

DISHWASHER, Roper deluxe under-counter model, works, \$25. Schubeck, 821-3133.

TRANSPORTATION

'89 CHEV. SEDAN, 4-dr. Bernal, 869-2305.

'84 MAZDA 626 2-DR. COUPE, 5-spd., cruise, AC, AM/FM stereo cassette, aluminum wheels, \$6800. Clauss, 821-8840.

'86 ISUZU PICKUP, AM/FM, AC, extended warranty, \$6000. Littlejohn, 823-2456.

'85 HONDA 250R 3-WHEELER, ridden less than 25 hrs., \$1400 firm. Silva, 265-5523.

'84 HONDA PRELUDE, 5-spd., AC, PS, AM/FM cassette, power sunroof, \$9000 OBO. Woodall, 822-0060.

HONDA CM-250 STREET CYCLE, belt-drive, trunk, 75 mpg, \$700 firm. Holmes, 292-0898.

'78 DATSUN 200SX, yellow, extras, 62K miles, \$2500. Carlyon, 299-2318.

'85 CORVETTE, 4-spd., 5K miles, two-tone bronze color, Bose stereo, one owner, \$24,000. Stotts, 298-8894.

'85 HONDA CRXSI, red, 18K miles, AC, AM/FM cassette, Pro-shield, louvers, extras, \$7500. Lloyd, 822-8567.

'84 KAWASAKI LTD 700, garaged, \$2400 OBO. Padilla, 841-8692.

'72 VW SUPERBEETLE, \$1375 OBO. Statler, 299-1560 after 5 or week-ends.

'86 NISSAN PICKUP, AC, AM/FM, 5-spd., \$6250 OBO. Woodall, 822-0060.

'76 BUICK ELECTRA LIMITED, 4-dr., equipped w/all options available in '76, one owner, \$1500. Simon, 898-3275.

BIKE, Mongoose BMX w/2 spare sets of rims, \$90. Vigil, 296-3590.

'74 DATSUN 610, 4-dr., AT, AC, AM/FM cassette, Bridgestone radials, \$900. Corbin, 296-4121.

Retirees Wanted

Duke City Escort Service needs Q-cleared retiree(s) to escort uncleared visitors and construction workers to DOE/Albuquerque and LANL. Must have retired within the last six months. If qualified and interested, call Tony Sisneros at 291-9292.

'83 MAZDA RX-7, sports car, 45K miles, AM/FM cassette stereo, sunroof, louvers, AC, gold/brown, \$7800 OBO. LeMaster, 877-7202 after 5:30.

'86 ISUZU TROOPER II, deluxe model, 6.1K miles, gasoline, PS, PB, AC, custom stereo. Beecher, 265-2165.

'77 DATSUN 280Z, new tires and paint, winter cover, AT, stereo cassette, AC, \$3600. Hutchins, 884-3214.

'74 PONTIAC GRAND AM, cruise, tilt, AC, AT, 400 V-8, PS, PB, manuals, \$950 OBO. Johnson, 823-1689.

MEN'S 3-SPD. BICYCLE, \$45. Diegle, 294-5565.

'83 SUBARU SW, cruise, electric windows, AT, PS, AC, 27K miles, new tires, \$5000. Lackey, 869-9333.

'76 TOYOTA PICKUP, SR5 short bed, w/camper shell, \$900 OBO; will trade for 14' fishing boat, motor, & trailer. Rozelle, 298-0396.

'80 TOYOTA COROLLA, 4-dr. sedan, white, 5-spd., AC, stereo, original owner, \$2500. Greher, 298-1630.

'86 GMC S-15 JIMMY, electronic fuel-injected V-6, AM/FM cassette, AC, PS, luggage rack, air deflector, more. Johnson, 298-8621.

'79 JEEP CJ-5, 6-cyl., 3-spd., 52K miles, hardtop w/sunroof, 2 KCs, \$3250. Waddoups, 865-7952.

'86 SUBARU GL-10 SW, 4x4, 5-spd., power sunroof, loaded, 10K miles, \$11,500. Skillern, 296-6220.

'83 PACE ARROW MOTORHOME, 34', loaded, \$30,000. Pullen, 291-0666.

'86 CUTLASS SUPREME, V-8, sport package, loaded, less than 13K miles, extended warranty, \$11,750 OBO. Neidigk, 292-4239.

'83 BUICK LeSABRE LIMITED, V-6, two-tone paint, cassette stereo, new tires and brakes, \$4950. Stewart, 293-3959.

'83 SUZUKI 850G, shaft drive, windshield, rear luggage rack, 7K miles, \$1995. Mills, 823-4484.

'72 SCOUT 4-WD, 4-spd., AC, \$2200. Ortiz, 869-3278.

'81 FORD GRANADA, 4-dr., AM/FM, V-6, one owner, new steel-radial tires and paint, \$2600. Martinez, 821-8110 after 5.

'79 CORVETTE, 350 V-8, T-tops, spoilers, louvers, cover, AC, PS, PB, 76K miles, 30K miles on rebuilt engine, radials, custom paint, \$10,000 OBO. Brantley, 294-1169.

'77 CLASS A MOTORHOME, 26', Kings Highway, fully loaded, 45K miles, new Michelin radials, NADA wholesale. Gosler, 828-0728.

'83 QUICKSILVER ULTRALIGHT, Cayuna 430, instruments, helmet, radio, carrier, extras, \$1000. Vaughn, 298-5919.

'77 YAMAHA XS500D, windshield, electric starter, \$600. Mowry, 299-2526.

'79 CORVETTE L-82, loaded, white exterior w/blue accents, blue interior, \$11,700; Peugeot bicycle, CP-10, 21", blue, 10-spd., \$115. Laird-Wilde, 298-5359.

'76 CORVETTE L-82, T-tops, leather interior, white and maroon, stereo, \$6800; '84 Camaro Z-28, T-tops, power options, \$7800. Pryor, 294-6980.

MEN'S BICYCLE, 3-spd., 26", \$45. Falacy, 293-2517.

'83 FORD ESCORT, 4-dr., PS, AC, 5-spd., AM/FM stereo, cloth interior, \$2725. Grimley, 821-4201.

'65 FORD 1/2-TON PICKUP, V-8, AT, LWB, new battery and tuneup, \$850. Shaw, 296-2531.

'82 CHEV. CAVALIER, 2-dr., AC, PS, PB, AT, tilt, cruise. Williams, 1-864-3617.

FOLDING BICYCLE, Staiger (Dutch), \$50. Johnson, 255-5427.

'78 PONTIAC LeMANS WAGON, 305 V-8, 60K miles, \$2000. McMullen, 298-2801.

'81 HONDA CX500D, 13K miles, original owner, extras, \$975 or trade; women's 26" 3-spd. bicycle, \$40. Zirzow, 294-7296.

'85 KAWASAKI NINJA 600R, 1.9K miles, \$2950. Turner, 877-5649.

'77 MONTE CARLO, PS, PW, PB, AC, AM/FM cassette, 60K miles, \$2250. Gough, 822-0090.

'75 CHEVELLE, 350 engine, \$1000 OBO. Williams, 298-2624.

'74 FORD E100, 302 V-8, 5-passenger, some new parts, \$1500 OBO. Byers, 298-8326.

KID'S BICYCLE, 16" w/training wheels; tricycle. Passman, 821-4999.

'69 PLYMOUTH VALIANT, slant-6, AT, new tires and other parts, best offer. Amos, 298-1095.

'78 SUBARU FE, 2-dr. coupe, \$1000. Kitta, 296-4057.

'73 HONDA 750CB, \$850 OBO; '75 Honda XL350, one owner, 1.9K miles, \$850 OBO. Martin, 823-9104.

'71 FORD TORINO WAGON, 351 V-8, \$150. Bader, 884-8696.

REAL ESTATE

3-BDR. HOME, great room w/FP, 2 baths, 2-car garage, near Tanoan, fruit trees, 7 yrs. old, \$99,800. Clauss, 821-8840.

2-BDR. MOBILE HOME, 14' x 65', 5 min. from Labs, no down to qualified buyer. Palkovic, 292-5582.

4-BDR. HOME, repossessed and re-decorated, on 3/4-acre in Rio Rancho, \$72,000. Brandon, 892-0449.

3-BDR. HOME, SE, 1-3/4 baths, 1500 sq. ft., open floor plan, mature landscaping, \$85,500. Bamhart, 255-0574.

TOWNHOME, 1380 sq. ft., 2-1/2 baths, fully equipped kitchen, garage, pool, and tennis court, \$68,900. Robinson, 888-0321.

4-BDR. HOME, near Eastdale, 2385 sq. ft., w/2-rm. in-law apt. in architect-designed additions, \$98,000. Maase, 299-3647.

1-BDR. CONDO, Winrock Villas, near pool and laundry facilities, covered fenced patio, \$36,500. Schmidt, 867-5989 evenings.

3-BDR. HOME, 1100 sq. ft., 1-car garage, pitched roof, wood-burning stove, extras, close to schools and shopping, assumable w/low down, mid-\$60s. Wilde, 298-5359.

5-BDR. CUSTOM HOME, Mossman, 4 baths, 3000+ sq. ft., built-ins, \$179,500. Thompson, 884-4883.

9 ACRES w/telephone and electricity near Estancia, bordered by roads on 3 sides, \$12,500 at 9% interest and 10% down payment. Thomas, 256-1921.

3-BDR. HOME, Spanish territorial, 1780 sq. ft. plus 300-sq.-ft. sunroom, cul-de-sac near Comanche and Candlelight, \$93,500. Delnick, 294-4670.

2-3 BDR. CUSTOM HOME, Tramway/Lomas, 1700 sq. ft., 2 baths, sunken LR w/FP, country-style kitchen, wood & tile accents, double garage, more, \$95,000. Eckley, 294-7650.

3-BDR. HOME, Juan Tabo & Constitution, Eastridge Addition, 1600 sq. ft., 1-3/4 baths, assumable 9.5% FHA loan, low equity, \$86,900. Traylor, 292-6906.

WANTED

OUTBOARD MOTOR, 9.9 hp, or 15 hp, OMC brands, good condition. Holmes, 292-0898.

ROOMMATE, female to share 2-bdr. NE Heights apartment w/female; FP, dishwasher, W/D, etc., no pets, \$210/mo. plus 1/2 utilities and deposit. Fisher, 881-8072 or 821-7478.

BABYSITTING JOB, for Red Cross-certified, high school honor student: will babysit weekends in Eubank/Juan Tabo area. Wagner, 293-3211.

HORSE TRAILER, thoroughbred-size, 2-horse, w/tack room and escape door. Hughes, 265-1698.

FLY RODS AND REELS, will trade handguns, rifles, shotguns for near equal value. Tessler, 296-7587.

Eggstra! Eggstra! Kids Do the Bunny Hop Tomorrow

HARE'S LOOKING AT YOU, KID — When you show up tomorrow for the annual hunt-and-roll eggstravaganza from 10 a.m. to noon. Special prizes for children in different age groups who find the most Easter eggs. Afterward they can bend the ear of The Big Bunny, who presides over festivities that day. A large crowd's expected, so this one is limited to members' children only. Don't forget your membership card.

TAKE THE A-TRAIN or drive your car or something — just be there tonight, when Don Lesmen and his crew deliver those Big Band sounds for your dancing pleasure from 8 to 11:30 p.m. Beforehand, feast on the two-for-one special dinner — your choice of filet mignon or halibut, two entrees for \$14.95. Take five and make that dinner reservation right now (265-6791).

THEY'RE CIRCLING IN AGAIN on a couple more get-togethers this month. Who? The T-Bird card sharks, of course. The big dates in April are the 16th and 30th — both Thursdays. Action starts at 10:30 a.m., and there are plenty of munchies to go along with the wheeling and dealing. This group is a cut above the rest, so shuffle on in to join them!

OK, LITTLE DOGIES — If you didn't make it to Western Night last Friday, you missed a biggie, according to our informants. But you're in luck; there's another one scheduled *next* Friday night, April 17. Those good old Poor Boys from Isleta strum their country/western strains from 8 p.m. to midnight, right after the two-for-one featuring prime rib or scallops. When you call in your reservations, ask what else is cookin' in the chuck wagon; Chef Henry always comes up with a few menu surprises for the Friday night specials.

THE CLUB'S GOING TO EGGSTREMES to bring you the best brunch in town on Easter Sunday, April 19. The buffet, served from 10 a.m. to 2 p.m., has something for everybody: Virginia baked ham

with cherry sauce, baron of beef, fried chicken, potatoes au gratin, green beans almonline, Denver omelets, scrambled eggs, sausage, green chile salsa, hash browns, French rolls, mini-bagels with cream cheese, blueberry crumb cake, fresh fruit salad and tossed salad, an assorted cheese tray, vegetable trays with dip, beverages, and (whew!) a medley of desserts to top it all off. Add a complimentary glass of champagne, and you have quite a feast on your hands. It's a real holiday celebration for the whole family at very reasonable prices: adults, \$10.50; children ages 5-12, \$5.75; and kids 4 and under, free. Space is limited, so hop to it on that reservation.

ON THE BEAM are Leto and the Spectrum Band, as they belt out the happy music for dancing from 8 p.m. to midnight two weeks from tonight, April 24. Dinner entrees that night are T-bone steak (10-oz.) at \$6.95 or fried fish at \$5.95. Guaranteed to be a blast of an evening!

BUSY, BUSY — Seems like those Thunderbirds never stop to rest. They have another party coming up April 24. This time it's a cocktail dance from 7:30 to 10:30 p.m. in the Eldorado room, with maestro Bob Banks providing the swing-and-sway music. All retirees are invited, so don't miss out on a relaxing, fun-filled evening.

GENTLEMEN (AND WOMEN), START YOUR ENGINES! Just give those T-Bird RVers a little warm weather, and they're on the road again. This time it's a big rally at Carlsbad Caverns from April 27 to April 30. For details, call wagonmasters Duane Laymon, 822-1749; Tom Brooks, 344-5855; or Bill Minser, 299-1364. All T-Bird members are welcome. That could be one whale of a party!

SUNNY SIDE OF THE STREET is where you'll be when you sign up for some of those terrific trips put together by the C-Club Travel Committee. Vacation season is right around the corner, so now's the time to plan ahead.

Take Note

On May 13, KAFB will host a luncheon to recognize employer support of the Guard and Reserve at the East Officers Club at 11:30 a.m. The guest speaker is Eugene "Red" McDaniel, ex-POW and president of the American Defense Foundation and the American Defense Institute in Washington, DC. Tickets are \$5.25. Bob Austin (3163) is the Sandia representative on the luncheon planning committee. Contact Bob on 4-2282 for ticket information.

Translating and conference/escort interpreting services can be obtained throughout the state from the New Mexico Translators and Interpreters Association, a non-profit professional organization whose primary purpose is to bring together translators and interpreters to exchange ideas and expertise. The NMTIA holds meetings every other month, on the third Wednesday of the month at 7:30 p.m. in the lounge of Central Park Apartments (south of Montgomery on the East Frontage road). The next meeting is April 15. Also, NMTIA will host the American Translators Association's 1987 convention in Albuquerque in October. Patricia Newman (3144) is national president of the ATA. For more information about NMTIA, call Patricia on 4-2395.

You don't have to be a monk to get in on some Gregorian chanting. The Albuquerque Plain Chant Society is looking for members. The Society meets Tuesdays at 5 p.m. at St. Thomas of Canterbury Church (University & Central). For more information, or if you'd like to audition, contact the Society's music librarian, Michael Hannah (2614), on 6-3459, or director Tom Philips on 268-8848.

An art show by Sanado Woman's Club artists is the highlight of the April 14 luncheon at the Marriott Hotel. Sanado artists will present the art show from 10 a.m. to 8 p.m. with the luncheon served at noon. Lunch is \$10.50. Make reservations with Marsha at 296-3064.

Something old, something new, something trivial, something blue . . . can be bought at KAFB's Thrift Shop (on I Street, west of Bldg. 800 and south of First Interstate Bank). The shop has several rooms of used furniture, books, electronic gadgetry, toys, clothes, jewelry, appliances, and housewares. The hours are Mon. & Thurs. 10-2, Wed. 10-5:30, and the first Sat. of every month 10-2. All Sandians, including retirees, can buy items at the recently redesigned shop, but only MWR card holders (\$24/yr. membership dues) can consign items for sale. Consignment hours are Mon. & Thurs. 10-1, and Wed. 2:30-4:30. The shop's proceeds go into the welfare fund of the Officers' Wives Club and are donated to local charities, cultural groups, and Base facilities. For more information, call 265-3902.

Congratulations

To Caryn Tepe (133) and John White (9132), married in Albuquerque, March 14.

To Laura and Steven (1266) Chaba, a daughter, Claire Ellen, March 26.

To Matilda (5238) and George Shendo, a daughter, Georgette, March 31.

Arizona Advocate? Then here's your chance, May 9-12, to enjoy scintillating sights in our neighboring state to the west. Visit Flagstaff, Prescott, and Sedona, with side trips to the Painted Desert, Petrified Forest, Montezuma Castle National Monument (a five-story Indian ruin), Jerome State Historical Park, Meteor Crater, and more. Of course, gorgeous Oak Creek Canyon is there for the looking. The low, low price of \$170/person includes three nights' lodging, RT bus fare, and snacks and drinks along the way.

Colorado Comfort is what you'll experience on this five-day tour up north, June 3-7. The itinerary includes lunch on the bank of the Rio Grande in Alamosa, tours of Leadville and the restored mining town of Central City, and a visit to the Coors Brewery in Golden. Fine museums and the Mint are some of the spots you visit during your day in Denver. Then it's on to Colorado Springs, where you see the Air Force Academy, Garden of the Gods, the Broadmoor, and Cheyenne Mountain Observatory. The tab of \$248/person (double) includes four nights' lodging, admission to all attractions, and a dinner show at the Flying W BBQ in Colorado Springs.

Alaska Alternatives are yours next September, because you can opt for either a land/cruise or cruise-only adventure in our largest state. Either way, you're surrounded by spectacular scenery. The land/cruise package (Sept. 8-20) covers city tours of Anchorage and Fairbanks, a visit to Mt. McKinley National Park (and a ride on the McKinley Explorer train), and a stern-wheeler cruise as part of your stay in Fairbanks. Cruise-only types join the group on Sept. 13 for a week-long cruise along the Alaskan coast aboard the elegant *Regent Sea*. Ports of call include Ketchikan, Juneau, Skagway, and Vancouver. Cost of the complete land/cruise option is \$2325/person (double); for cruise-only types it's \$1642. Included are all transportation costs (land/sea/air), lodging along the way, all meals aboard the *Regent Sea*, and taxes/tips. Bunk with a few more people (triples, quads) and get a price break; final payment isn't due until July 20.



SCOUTMASTER JIM McCLURE (6321) received this plaque depicting Norman Rockwell's painting, "The Scoutmaster," from the Great Southwest Council of Boy Scouts of America for his outstanding work with a Scout troop. Six Scouts in his unit advanced to the rank of Eagle Scout in 1986. He points out that being a good Scoutmaster is not a one-man job. He is assisted by 10 assistant Scoutmasters including Ernest Bolton (ret.), Richard Heckman (7241), Keith Gawith (7481), and Terry Herther (9115). The Great Southwest Council is a United Way agency.